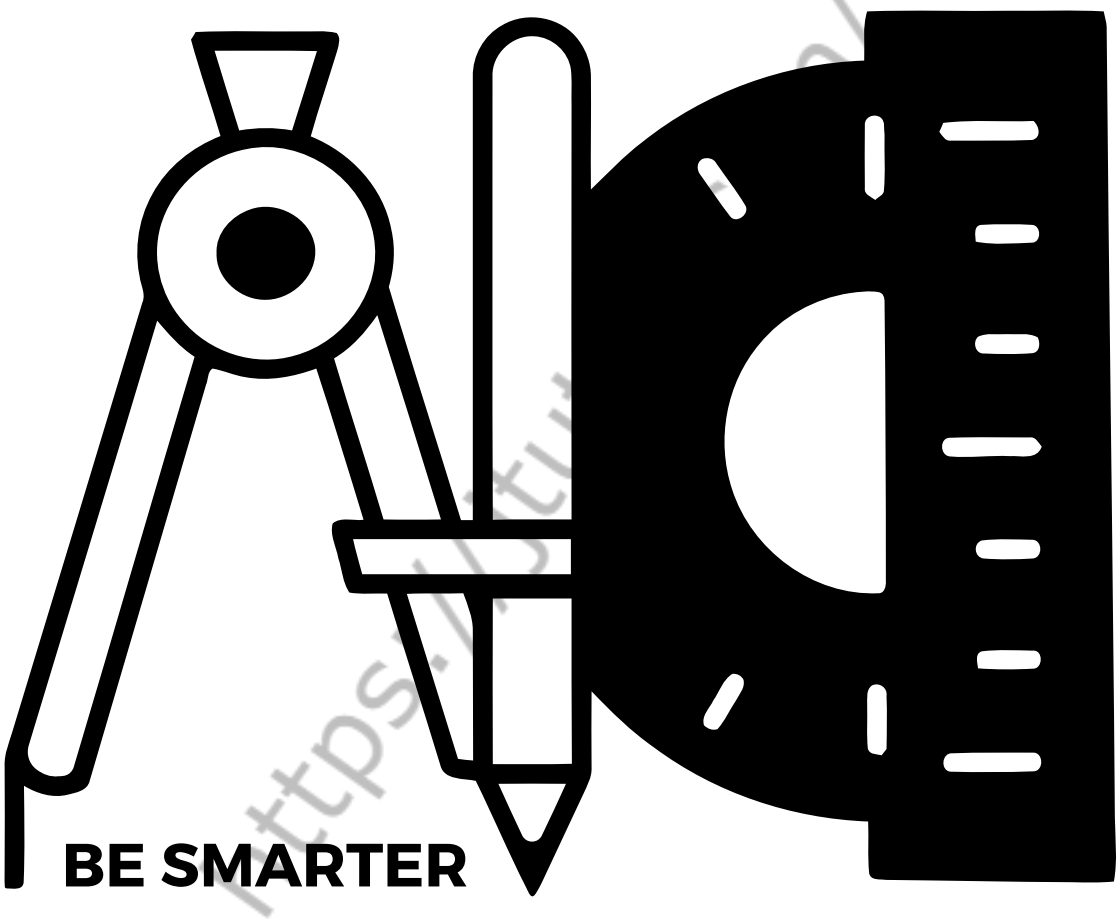
J-TUTES



YEAR 4 WORKBOOK

TERM 3 SYLLABUS

WEEK 1 - TEST DISCUSSION

CHAPTER 2 & 3 - MONEY I & II

CHAPTER 2 & 3 - MONEY I & II

Money

It is important to be able to handle money!

- You need to be able to give people the correct amount when you buy something.
- You also need to check that you get the right change.
- You should also be able to give the correct change when you sell something

And being able to do this fast and accurately makes you look smart and efficient.

Australian Money and Change

COINS

A lot of different coins make up the Australian currency.

5c, 10c, 20c, 50c, 1$, 2$

1 Australia Dollar = 100 cents, Currency Code: AUD

CHAPTER 2 & 3 - MONEY I & II

NOTES

Australian currency also contains currency notes of the below denominations - $5, $10, $20, $50 and $100

1 Australia Dollar = 100 cents, Currency Code: AUD

CHAPTER 2 & 3 - MONEY I & II

Counting Money Worksheet

Write the value of the money in dollars.

1)

2)

3)

4)

5)

6)

CHAPTER 2 & 3 - MONEY I & II

Counting Money Worksheet

Write the value of the money in dollars.

1)

2)

3)

4)

5)

6)

CHAPTER 2 & 3 - MONEY I & II

Counting Money Worksheet

Write the value of the money in dollars.

1)

2)

3)

4)

5)

6)

CHAPTER 2 & 3 - MONEY I & II

Counting Money Worksheet

Write the value of the money in dollars.

1)

2)

3)

4)

5)

6)

CHAPTER 2 & 3 - MONEY I & II

Money Conversion

A) Convert cents to dollars.

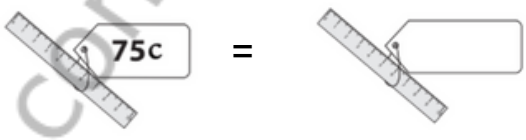
1) 580c = 2) 65c =

3) 445c = 4) 210c =

5) 80c = 6) 95c =

7) 

=

8) 

=

9) Cole bought a pack of party horns worth 500 cents. How many dollars did he pay to buy the pack?

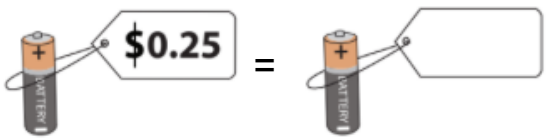
_____

B) Convert dollar to cents.

1) $6.05 = 2) $0.05 =

3) $0.30 = 4) $4.00 =

5) $8.65 = 6) $0.10 =

7) 

=

8) 

=

9) Emma has $4.25 in her piggy bank. How many cents does Emma have in her piggy bank?

_____

CHAPTER 2 & 3 - MONEY I & II

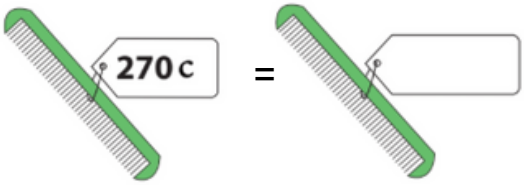
Money Conversion

A) Convert cents to dollars.

1) 175c = 2) 800c =

3) 60c = 4) 605c =

5) 5c = 6) 40c =

7) 

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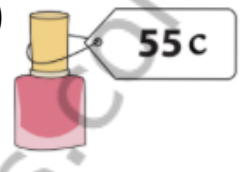
8) 

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9) Richard has 190 cents in his coin jar. How many dollars are there in his collection?

_____

B) Convert dollar to cents.

1) $0.20 = 2) $9.00 =

3) $0.15 = 4) $0.45 =

5) $2.90 = 6) $1.65 =

7) 

=

8) 

=

9) Natalie gifted a board game worth $8.95 to her little sister Jess. How many cents has Natalie spent to buy the gift?

_____

CHAPTER 2 & 3 - MONEY I & II

Money Conversion

A) Convert cents to dollars.

1) 35c =

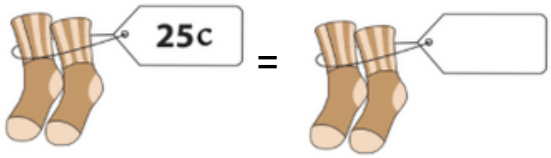
2) 20c =

3) 100c =

4) 75c =

5) 435c =

6) 690c =

7) 

=

8) 

=

9) Richard has 190 cents in his coin jar. How many dollars are there in his collection?

_____

B) Convert dollar to cents.

1) $0.20 =

2) $9.00 =

3) $0.15 =

4) $0.45 =

5) $2.90 =

6) $1.65 =

7) 

=

8) 

=

9) Natalie gifted a board game worth $8.95 to her little sister Jess. How many cents has Natalie spent to buy the gift?

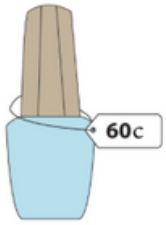
_____

CHAPTER 2 & 3 - MONEY I & II

What is Your Change?

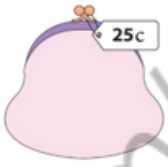
You pay $1 for each item. Show the change you receive, with minimum number of coins.

1)



___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

2)



___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

3)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

4)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

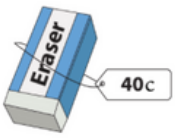
5)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

6)

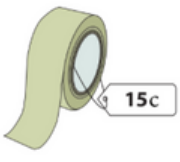
___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

7)



___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

8)



___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

CHAPTER 2 & 3 - MONEY I & II

What is Your Change?

You pay $1 for each item. Show the change you receive, with minimum number of coins.

1)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

2)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

3)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

4)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

5)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

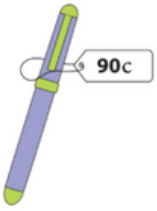
6)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

7)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

8)



___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

CHAPTER 2 & 3 - MONEY I & II

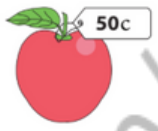
What is Your Change?

You pay $1 for each item. Show the change you receive, with minimum number of coins.

1)

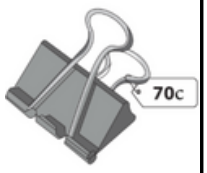
___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

2)



___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

3)



___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

4)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

5)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

6)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

7)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

8)

___ 50-cent coins
___ 20-cent coins
___ 10-cent coins
___ 5-cent coins

CHAPTER 2 & 3 - MONEY I & II

Counting money - shopping problems

Using the below item prices, solve the questions.

hot dog = $1.40	cola = $1.40
order of French-fries = $0.80	ice cream cone = $1.20
hamburger = $2.40	milk shake = $2.50
deluxe cheeseburger = $3.80	taco = $2.30

1) If Jennifer buys a hot dog, and if she had $10.00, how much money will she have left? _____

2) If David buys a hot dog and a taco, and if he had $10.00, how much money will he have left? _____

3) What is the total cost of a cola and an ice cream cone? _____

4) Audrey wants to buy a milk shake and a hot dog. How much will she have to pay? _____

5) If Amy buys a milk shake, what will her's change be if she pays $5.00? _____

6) Brian wants to buy a milk shake, an order of French-fries. and a deluxe cheeseburger. How much will he have to pay? _____

7) What is the toal cost of a hamburger? _____

8) Jackie wants to buy a taco, a cola, and a hot dog. How much will it cost her? _____

9) If Adam buys a deluxe cheeseburger and an ice cream cone. how much change will he get back from $10.00? _____

10) Donald purchases an ice cream cone, a hot dog, and a deluxe cheeseburger. If he had $20.00, how much money will he have left? _____

CHAPTER 2 & 3 - MONEY I & II

Counting money - shopping problems

Using the below item prices, solve the questions.

hot dog = $1.80	cola = $1.20
order of French-fries = $0.90	ice cream cone = $1.00
hamburger = $2.80	milk share = $2.00
deluxe cheeseburger = $3.70	taco = $2.50

1) Jackie purchases a hamburger and a hot dog. What will her's change be if she pays $10.00? _____

2) If Paul buys a hot dog, how much money will he get back if he pays $5.00? _____

3) Donald purchases a hot dog, an order of French-fries, and a deluxe cheeseburger. If he had $20.00, how much money will he have left? _____

4) What is the total cost of a milk shake and a cola? _____

5) Michele wants to buy a hot dog, a milk shake, and a cola. How much will she have to pay? _____

6) If Marcie buys a hamburger, an order of French-fries, and a deluxe cheeseburger, and if she had $10.00, how much money will she have left? _____

7) What is the total cost of a deluxe cheeseburger, a milk shake, and a cola? _____

8) David purchases a taco. How much change will he get back from $5.00? _____

9) What is the total cost of a deluxe cheeseburger? _____

10) Janet wants to buy a cola. How much money will she need? _____

CHAPTER 2 & 3 - MONEY I & II

Counting money - shopping problems

Using the below item prices, solve the questions.

hot dog = $1.10	cola = $1.20
order of French-fries = $0.90	ice cream cone = $1.40
hamburger = $2.80	milk share = $2.80
deluxe cheeseburger = $3.80	taco = $2.50

1) If Jake buys a hamburger and a taco, and if he had $20.00, how much money will he have left? _____

2) Jennifer wants to buy an ice cream cone. How much money will she need? _____

3) What is the total cost of a milk shake and a cola? _____

4) Michele wants to buy a hot dog. How much will it cost her? _____

5) If Billy buys a hamburger, how much money will he get back if he pays $10.00? _____

6) Brian wants to buy an order of French-fries, a cola, and a deluxe cheeseburger. How much will he have to pay? _____

7) Adam wants to buy a milk shake, a taco, and a cola. How much will he have to pay? _____

8) Marcie purchases a milk shake, a hamburger, and a hot dog. How much change will she get back from $10.00? _____

9) If Janet buys a cola, how much change will she get back from $10.00? _____

10) If Steven wanted to buy a taco, a deluxe cheeseburger, and a cola, how much would it cost him? _____

CHAPTER 2 & 3 - MONEY I & II

Counting money - shopping problems

Using the below item prices, solve the questions.

hot dog = $1.20	cola = $1.30
order of French-fries = $0.80	ice cream cone = $1.80
hamburger = $2.20	milk share = $2.60
deluxe cheeseburger = $3.80	taco = $2.90

1) Marcie purchases a milk shake. How muh money will she get back if she pays $10.00? _____

2) What is the total cost of a taco? _____

3) Sharon purchases a hamburger. What will her's change be if she pays $5.00? _____

4) If Sandra wanted to buy a taco, how much money would she need? _____

5) If Audrey buys an ice cream cone and a cola, and if she had $10.00, how much money will she have left? _____

6) If Steven buys an order of French-fries, a hamburger, and a deluxe cheeseburger, and if he had $10.00, how much money will he have left? _____

7) If Michele buys an ice cream cone, a cola, and a taco, what will her's change be if she pays $20.00? _____

8) Jennifer purchases a hamburger, an ice cream cone, and a deluxe cheeseburger. How much change will she get back from $20.00? _____

9) Brian wants to buy a cola and a hot dog. How much will he have to pay? _____

10) If David wanted to buy a milk shake and an ice cream cone, how much money would he need? _____

CHAPTER 2 & 3 - MONEY I & II

Figure out the Change!

1)

Rachel has  . She buys a

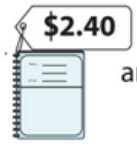
and a 

. How much change does she get?

_____

2)

Mary has  . She buys a



and a 

. What is her change?

_____

3)

Roy has  . He buys a

and an 

. What is his change?

_____

4)

Jack has  . He buys a

, a 

and a 

.

How much change does he get?

_____

5)

Eric has  . He buys a

, a 

and a 

.

How much change does he get?

_____

6)

Ruth has  . She buys a

and a 

. What is her change?

_____

7) Ascott went to a pet store and bought a dog bed for $36.25 and a collar for $7.20. If he handed a fifty-dollar note to the cashier, how much money did Ascot receive in change?

_____

8) Paul has $20.00 in his wallet. He buys a keyboard for $12.00 and a mouse for $6.30 at an electronics store. How much money is left with him?

_____

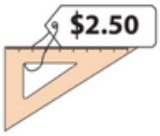
CHAPTER 2 & 3 - MONEY I & II

Figure out the Change!

1)

Jerry has  . He buys a

, a 

and a 

.

What is his change?

_____

2)

Judy has  . She buys a

and a 

. How much change does she get?

_____

3)

Peter has  . He buys a

and a 

. How much change does he get?

_____

4)

Billy has  . He buys a

, a 

and a 

.

What is his change?

_____

5)

Rose has  . She buys a

and a 

. What is her change?

_____

6)

Jane has  . She buys a

and a 

. How much change does she get?

_____

7) Mom bought a bunch of bananas priced at $1.45, a carton of milk costing $0.90 and an ice cream tub worth $2.25 to make a banana milkshake. She made the payment with a five-dollar note. How much change did Mom receive?

_____

8) At the supplies store, Alex bought a ream of paper for $36.75, a pack of push pins for $1.15 and sticky notes for $4.85. He handed the cashier a fifty-dollar note. How much change did he receive?

_____

CHAPTER 2 & 3 - MONEY I & II

Figure out the Change!

1)

Rita has  . She buys a  and a  . How much change does she get?

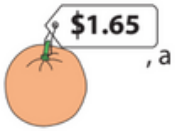
_____

2)

Mike has  . He buys a  and a  . How much change does he get?

_____

3)

Sandra has  . She buys a  , a  and a  .

What is her change?

_____

4)

Anna has  . She buys a  and a  . How much change does she get?

_____

5)

Tony has  . He buys a  and a  . How much change does he get?

_____

6)

Fred has  . He buys a  , a  and a  change does she get?

_____

7) Edmund took a T-shirt worth $29.50 and a pair of jeans priced at $24.85 for billing. He paid a hundred-dollar note at the counter. How much change did the cashier return?

_____

8) Ted bought three books that were priced at $4.25, $6.75 and $8.95 at the bookstore. If he paid for his purchases with a twenty-dollar note, how much change did he receive?

_____

CHAPTER 2 & 3 - MONEY I & II

It's Time for Change

1)

You bought

for $27.00.

You paid 

.

You got back...

_____

2)

You bought

for $8.65.

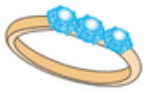
You paid 

You got back...

_____

3)

You bought



for $16.30.

You paid 

.

You got back...

_____

4)

You bought

for $55.00.

You paid 

.

You got back...

_____

5)

You bought

for $38.05.

You paid 

.

You got back...

_____

6)

You bought

for $17.80.

You paid 

.

You got back...

_____

7) Rhea bought a cricket bat worth $61.15 and paid with a hundred-dollar note. How much change did Rhea receive?

_____

8) Scarlett bought a pack of crayons for $4.50 at the supplies store. How much change did she get, if she handed a five-dollar note to the storekeeper?

_____

CHAPTER 2 & 3 - MONEY I & II

1) Carl starts with $60.00 and spends $32.15 on eggs. How much does Carl have left?

2) Jane worked to earn $14.00. If she earns $7.00 per hour, how many hours did Jane work?

3) Kelly earns $4.00 per hour working. If she works for 8 hours, how much money will Kelly earn?

4) Douglas earns $9.00 per hour working. If he works for 10 hours, how much money will Douglas earn?

5) Gary has $9.00 and Jose has $7.32. How much more does Gary have than Jose?

CHAPTER 2 & 3 - MONEY I & II

1) Nancy worked to earn $8.00. If she worked for 4 hours, how much money does Nancy earn per hour?

2) Bridget earns $5.00 per hour working. If she works for 2 hours, how much money will Bridget earn?

3) Anne earns $3.00 per hour working. If she works for 7 hours, how much money will Anne earn?

4) Daniel has $24.00. Apples cost $6.00 each. How many apples can Daniel buy?

5) Fred earns $6.00 per hour working. If he works for 9 hours, how much money will Fred earn?

CHAPTER 2 & 3 - MONEY I & II

1) Christine spends $24.00 on candies. Each candy costs $8.00. How many candies did Christine buy?

2) Anne earns $3.00 per hour working. If she works for 7 hours, how much money will Anne earn?

3) One candy costs $4.00. How much do 3 candles cost?

4) Anna worked to earn $35.00. If she worked for 5 hours, how much money does Anna earn per hour?

5) Phillip worked to earn $45.00. If he earns $5.00 per hour, how many hours did Phillip work?

CHAPTER 2 & 3 - MONEY I & II

1) One marble costs $3.00. How much do 40 marbles cost?

2) Nathan earns $5.00 per hour working. If he works for 40 hours, how much money will Nathan earn?

3) Rachel worked to earn $350.00. If she earns $5.00 per hour, how many hours did Rachel work?

4) One egg costs $6.00. How much do 9 eggs cost?

5) Pamela has $24.00. Cards cost $6.00 each. How many cards can Pamela buy?

CHAPTER 2 & 3 - MONEY I & II

1) Jose gives $9.24 to Alan. If Jose started with $25.54, how much money does he have left?

2) Nancy gives $7.34 to Jeffrey. If Nancy started with $93.31, how much money does she have left?

3) Marie starts with $36.20 and spends $7.89 on cards. How much money does Marie have left?

4) Marie has $21.92 and Shirley has $6.11. How much money do they have together?

5) Emily has $77.62 and Gary has $3.43. How much more does Emily have than Gary?

CHAPTER 2 & 3 - MONEY I & II

1) Victor has $81.00. Eggs cost $9.00 each. How many eggs can Victor buy?

2) Sharon earns $3.00 per hour working. If she works for 9 hours, how much money will Sharon earn?

3) Gary earns $6.00 per hour working. If he works for 7 hours, how much money will Gary earn?

4) Tammy spends $40.00 on peanuts. Each peanut costs $8.00. How many peanuts did Tammy buy?

5) Judith has $49.00. Erasers cost $7.00 each. How any erasers can Judith buy?

CHAPTER 2 & 3 - MONEY I & II

Money

Profit & Loss

What is a Profit?

"Profit" can be simply defined as **income MINUS all expenses**.

Example:

Sam's bakery received $900 yesterday, but expenses such as wages, food and electricity came to $650.
So, the Profit was $900 - $650 = $250.

What is Loss?

If the income is LESS THAN the expenses, it is called a **"Loss".**

Example:

Two days ago Sam's Bakery received $480, but expenses were $250.
$480 - $520 = -$40, which is a $40 Loss

Profit & Loss from a shopkeeper's perspective

If the selling price is greater than the cost price, then the difference between the selling price and cost price is called **profit.**

If the selling price is less than the cost price, then the difference between the selling price and cost price is called **loss.**

CHAPTER 2 & 3 - MONEY I & II

Find the profit or loss by filling in the blanks

S. No.	Cost Price	Selling Price	Profit	Loss
(a)	$ 5000	$ 6000	$ 1000	
(b)	$ 12000	$ 10000		
(c)	$ 1800	$ 2400		
(d)	$ 5400	$ 7200		
(e)	$ 9100	$ 8000		
(f)	$ 6200	$ 6000		
(g)	$ 3300	$ 4000		
(h)	$ 1100	$ 1900		

CHAPTER 2 & 3 - MONEY I & II

Find the profit or loss by filling in the blanks

S. No.	Cost Price	Selling Price	Profit	Loss
(a)	$ 2400		$ 400	
(b)	$ 1900			$ 300
(c)		$ 2900	$ 100	
(d)		$ 1590		$ 60
(e)	$ 4100		$ 300	
(f)	$ 1200			$ 180
(g)		$ 1450	$ 45	
(h)		$ 5900		$ 490

CHAPTER 2 & 3 - MONEY I & II

Word Problems on Profit and Loss

1) A TV was bought for $18,950 and old at a loss of $4,780. Find the selling price.

2) A second hand car was sold for $190,000, at a loss of $85. Find the CP of the car.

3) Jane sold her genset for $20,000 at a profit of $1,737. Find the CP of genset.

CHAPTER 2 & 3 - MONEY I & II

Word Problems on Profit and Loss

4) Abraham bought a music system for $6,375 and spent $75 on its transportation. He sold it for $6,400. Find his profit or loss percent.

5) Joy bought pens at $120 a dozen. He sold it for $15 each. What is his profit percent?

6) Simi bought a study table for $9,000. She sold it at a profit of 20%. How much profit did she make? What is the selling price?

CHAPTER 2 & 3 - MONEY I & II

Word Problems on Profit and Loss

7) Find the selling price if the cost price is $1,200 and loss percent is 25.

8) Marshall bought 20 refills and sold them at $4 each. If it had cost $50 for the refills, what was his profit or loss percent?

9) Mr. Smith buys pencils at $250 per hundred and sells each at $1.75. Find his loss or profit.

CHAPTER 2 & 3 - MONEY I & II

Word Problems on Profit and Loss

10) Davis bought a second hand cycle for $500. He spent $80 in repairs and $175 in repainting. He then sold it to John for $900. How much did he gain or lose?

11) A fruit vendor bought 600 apples for $4,800. He spent $400 on transportation. How much should he sell each to get a profit of $1,000?

12) Tim bought a box of chocolates for $650 and sold it to Tom at a profit of $75. Find the selling price.

ICAS

WEEK 4 - MATERIAL FOR THIS WEEK IS AT THE END OF THE BOOK

CHAPTER 5 - TIME - CONVERSIONS

CHAPTER 5 - TIME - CONVERSIONS

Time Conversion

Time is the ongoing sequence of events taking place. The past, present and future.

The basic unit of time is the second. There are also minutes, hours, days, weeks, months and years.

We can measure time using clocks.

What is a day?

A day is how long it takes for the Earth to turn once around. A day is 24-hours long.

Each new day starts at midnight (12 O'clock at night) and ends next midnight.

Normally time is shown as **Hours : Minutes**

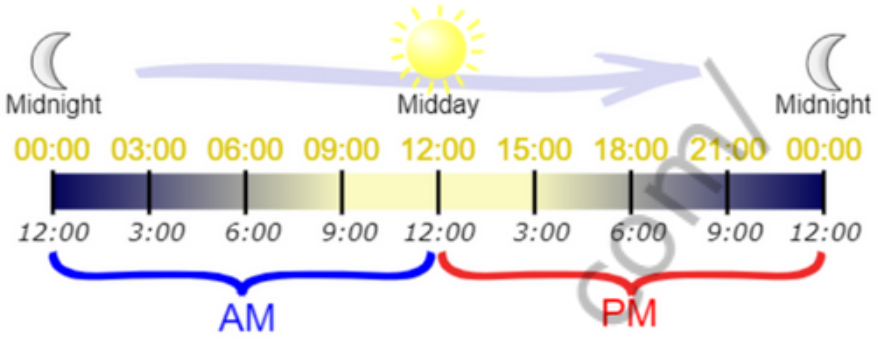
There are 24 Hours in a Day and 60 Minutes in each Hour.

CHAPTER 5 - TIME - CONVERSIONS

AM/PM vs 24 Hour Clock

There are two ways to show the time:

1) 12-Hour Clock also known as "AM/PM"



Understanding AM/PM (or "12 Hour Clock"):

- The 12 Hours running from Midnight to Noon (the **AM** hours), and
- The other 12 Hours running from Noon to Midnight (the **PM** hours).

2) The 24-hour clock

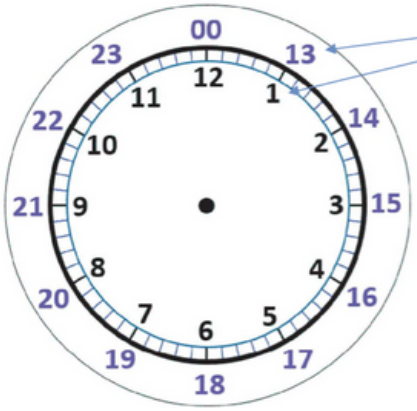
The 24-hour clock does not have am and pm times.

To change an am time to a 24-hour time, you don't need to do anything unless it is 12am in which case the hour changes to 00. Add a zero before a single digit hour.

To change a pm time to a 24-hour time, just add 12 to the hour, unless it is 12pm. If the hour is 12pm then it does not change.

CHAPTER 5 - TIME - CONVERSIONS

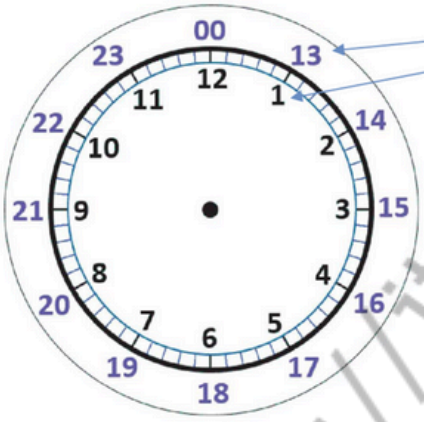
AM/PM vs 24 Hour Clock



1:00pm becomes 13:00 in 24 hour time.

Examples

9:05am is 09:05	9:05pm is 21:05
7:27am is 07:27	7:27pm is 19:27
12:10am is 00:10	12:10pm is 12:10



13:00 becomes 1pm when we subtract 12 from the hour.

Examples

22:30 becomes 10:30pm
06:45 becomes 6:45am
12:32 becomes 12:32pm
00:17 becomes 12:17am

Time Conversions

Converting Units of Time

60 seconds = 1 minute
60 minutes = 1 hour
24 hours = 1 day
7 days = 1 week

12 months = 1 year
52 weeks = 1 year
365 days = 1 year

10 years = 1 decade
100 years = 1 century
1000 years = 1 millennium

CHAPTER 5 - TIME - CONVERSIONS

Convert these times into 24 hour clock times

12 hour	24 hour
4:25 am	04:25
9:20 am	
2:55 am	
11:35 am	
1:07 am	
12:42 am	
6:13 am	

12 hour	24 hour
4:25 pm	
9:20 pm	
2:55 pm	
11:35 pm	
1:07 pm	
12:42 pm	
6:13 pm	

CHAPTER 5 - TIME - CONVERSIONS

Convert these times into 24 hour clock times

12 hour	24 hour
3:25 am	03:25
7:20 am	
8:05 am	
12:20 am	
1:16 am	
10:42 am	
12:51 am	

12 hour	24 hour
3:25 pm	
7:20 pm	
8:05 pm	
12:20 pm	
1:16 pm	
10:42 pm	
12:51 pm	

CHAPTER 5 - TIME - CONVERSIONS

Convert the times on these clock faces into 24 hour clock times

CHAPTER 5 - TIME - CONVERSIONS

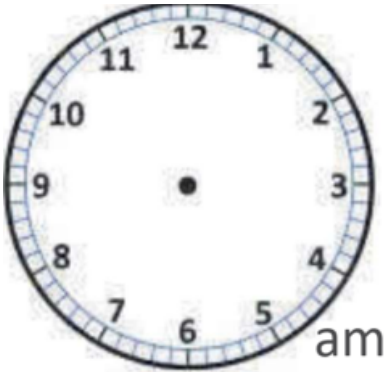
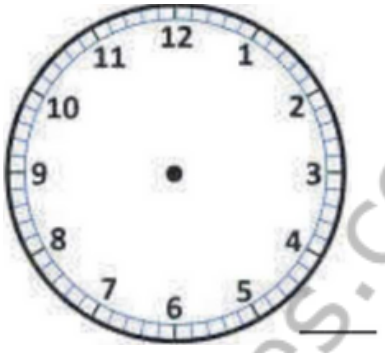
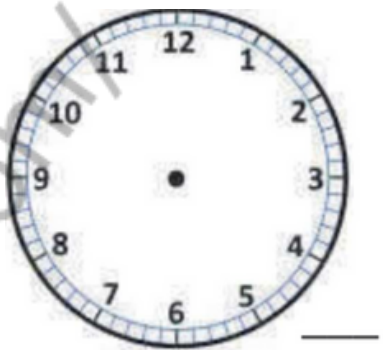
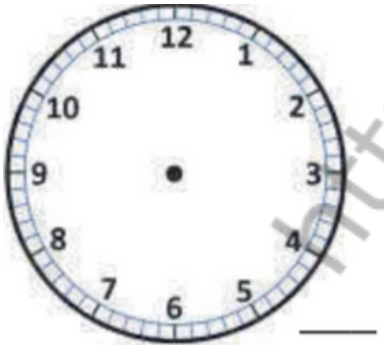
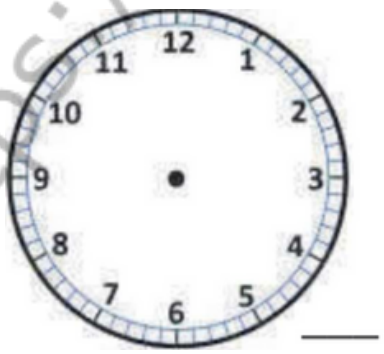
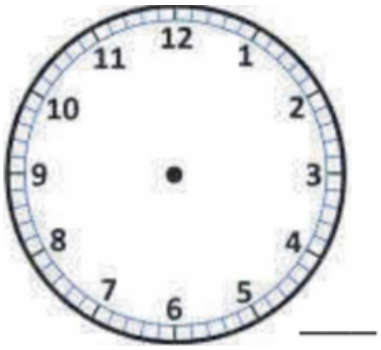
Convert these 24 hour times into am and pm times

24 hour	12 hour
13:25	1:25 pm
10:50	
16;41	
05:37	
12:10	
09:29	
17:02	

24 hour	12 hour
18:53	
22:05	
07:54	
00:17	
02:50	
21:12	
23:46	

CHAPTER 5 - TIME - CONVERSIONS

Draw the correct time on the clock faces to match the 24 clock time. Write down ‘am’ or ‘pm’ in the bottom corner of each clock.

 am		
06:25	14:50	00:15
		
18:05	22:20	15:55

CHAPTER 5 - TIME - CONVERSIONS

Hours and Minutes

Example:
6 hours = _____ minutes

1 hour = 60 minutes
6 hours = 6 x 60 minutes = 360 minutes

Convert the following hours to minutes	Work space
1) 5 hours = _____ minutes	
2) 7 hours = _____ minutes	
3) 3 hours = _____ minutes	
4) 9 hours = _____ minutes	
5) 14 hours = _____ minutes	
6) 12 hours = _____ minutes	
7) 8 hours = _____ minutes	
8) 15 hours = _____ minutes	
9) 4 hours = _____ minutes	
10) 11 hours = _____ minutes	

CHAPTER 5 - TIME - CONVERSIONS

Hours and Minutes

Example:
6 hours = _____ minutes

1 hour = 60 minutes
6 hours = 6 x 60 minutes = 360 minutes

Convert the following hours to minutes	Work space
1) 9 hours = _____ minutes	
2) 13 hours = _____ minutes	
3) 10 hours = _____ minutes	
4) 4 hours = _____ minutes	
5) 12 hours = _____ minutes	
6) 7 hours = _____ minutes	
7) 5 hours = _____ minutes	
8) 14 hours = _____ minutes	
9) 2 hours = _____ minutes	
10) 8 hours = _____ minutes	

CHAPTER 5 - TIME - CONVERSIONS

Hours and Minutes

Example:
360 minutes = _____ hours

60 minutes = 1 hour
360 minutes = $\frac{360 minutes}{60 minutes}$
= 6 hours

Convert the following hours to minutes	Work space
1) 300 minutes = _____ hours	
2) 120 minutes = _____ hours	
3) 660 minutes = _____ hours	
4) 900 minutes = _____ hours	
5) 540 minutes = _____ hours	
6) 240 minutes = _____ hours	
7) 600 minutes = _____ hours	
8) 420 minutes = _____ hours	
9) 180 minutes = _____ hours	
10) 720 minutes = _____ hours	

CHAPTER 5 - TIME - CONVERSIONS

Hours and Minutes

Example:
360 minutes = _____ hours

60 minutes = 1 hour
360 minutes = $\frac{360 minutes}{60 minutes}$
= 6 hours

Convert the following hours to minutes	Work space
1) 540 minutes = _____ hours	
2) 240 minutes = _____ hours	
3) 420 minutes = _____ hours	
4) 660 minutes = _____ hours	
5) 840 minutes = _____ hours	
6) 180 minutes = _____ hours	
7) 960 minutes = _____ hours	
8) 480 minutes = _____ hours	
9) 900 minutes = _____ hours	
10) 780 minutes = _____ hours	

CHAPTER 5 - TIME - CONVERSIONS

Minutes and Seconds

Example:
10 minutes = _____ seconds

1 minutes = 60 seconds
10 minutes = 10 x 60 seconds
= 600 seconds

Convert the following hours to minutes	Work space
1) 2 minutes = _____ seconds	
2) 6 minutes = _____ seconds	
3) 12 minutes = _____ seconds	
4) 9 minutes = _____ seconds	
5) 15 minutes = _____ seconds	
6) 4 minutes = _____ seconds	
7) 8 minutes = _____ seconds	
8) 11 minutes = _____ seconds	
9) 16 minutes = _____ seconds	
10) 7 minutes = _____ seconds	

CHAPTER 5 - TIME - CONVERSIONS

Minutes and Seconds

Example:
10 minutes = _____ seconds

1 minutes = 60 seconds
10 minutes = 10 x 60 seconds
= 600 seconds

Convert the following hours to minutes	Work space
1) 8 minutes = _____ seconds	
2) 5 minutes = _____ seconds	
3) 11 minutes = _____ seconds	
4) 7 minutes = _____ seconds	
5) 3 minutes = _____ seconds	
6) 9 minutes = _____ seconds	
7) 12 minutes = _____ seconds	
8) 14 minutes = _____ seconds	
9) 2 minutes = _____ seconds	
10) 13 minutes = _____ seconds	

CHAPTER 5 - TIME - CONVERSIONS

Minutes and Seconds

Example:
10 minutes = _____ seconds

1 minutes = 60 seconds
10 minutes = 10 x 60 seconds
= 600 seconds

Convert the following hours to minutes	Work space
1) 11 minutes = _____ seconds	
2) 13 minutes = _____ seconds	
3) 4 minutes = _____ seconds	
4) 2 minutes = _____ seconds	
5) 8 minutes = _____ seconds	
6) 6 minutes = _____ seconds	
7) 15 minutes = _____ seconds	
8) 3 minutes = _____ seconds	
9) 7 minutes = _____ seconds	
10) 14 minutes = _____ seconds	

CHAPTER 5 - TIME - CONVERSIONS

Hours and Minutes

Example:
2 hours 10 minutes = _____ minutes

1 hour = 60 minutes
2 hours = 2 x 60 minutes = **120 minutes**
2 hours 10 minutes = **120 minutes** + 10 minutes = **130 minutes**

Convert the following to minutes

1) 3 hours 15 minutes = _____ minutes

2) 9 hours 10 minutes = _____ minutes

3) 16 hours 20 minutes = _____ minutes

4) 7 hours 44 minutes = _____ minutes

5) 13 hours 55 minutes = _____ minutes

6) 14 hours 48 minutes = _____ minutes

7) 15 hours 24 minutes = _____ minutes

8) 4 hours 39 minutes = _____ minutes

CHAPTER 5 - TIME - CONVERSIONS

Hours and Minutes

Example:
2 hours 10 minutes = _____ minutes

1 hour = 60 minutes
2 hours = 2 x 60 minutes = **120 minutes**
2 hours 10 minutes = **120 minutes** + 10 minutes = **130 minutes**

Convert the following to minutes

1) 4 hours 23 minutes = _____ minutes

2) 8 hours 37 minutes = _____ minutes

3) 12 hours 55 minutes = _____ minutes

4) 11 hours 11 minutes = _____ minutes

5) 6 hours 22 minutes = _____ minutes

6) 2 hours 14 minutes = _____ minutes

7) 10 hours 19 minutes = _____ minutes

8) 5 hours 16 minutes = _____ minutes

CHAPTER 5 - TIME - CONVERSIONS

Hours and Minutes

Example:
2 hours 10 minutes = _____ minutes

1 hour = 60 minutes
2 hours = 2 x 60 minutes = **120 minutes**
2 hours 10 minutes = **120 minutes** + 10 minutes = **130 minutes**

Convert the following to minutes

1) 6 hours 38 minutes = _____ minutes

2) 12 hours 12 minutes = _____ minutes

3) 13 hours 20 minutes = _____ minutes

4) 5 hours 58 minutes = _____ minutes

5) 2 hours 37 minutes = _____ minutes

6) 8 hours 30 minutes = _____ minutes

7) 10 hours 29 minutes = _____ minutes

8) 7 hours 26 minutes = _____ minutes

CHAPTER 5 - TIME - CONVERSIONS

Hours and Minutes

Example:
2 hours 10 minutes = _____ minutes

1 hour = 60 minutes
2 hours = 2 x 60 minutes = **120 minutes**
2 hours 10 minutes = **120 minutes** + 10 minutes = **130 minutes**

Convert the following to minutes

1) 9 hours 12 minutes = _____ minutes

2) 3 hours 27 minutes = _____ minutes

3) 16 hours 18 minutes = _____ minutes

4) 14 hours 21 minutes = _____ minutes

5) 11 hours 17 minutes = _____ minutes

6) 15 hours 16 minutes = _____ minutes

7) 4 hours 50 minutes = _____ minutes

8) 2 hours 33 minutes = _____ minutes

CHAPTER 5 - TIME - CONVERSIONS

Hours and Minutes

Example:
2 hours 10 minutes = _____ minutes

1 hour = 60 minutes
2 hours = 2 x 60 minutes = **120 minutes**
2 hours 10 minutes = **120 minutes** + 10 minutes = **130 minutes**

Convert the following to minutes

1) 4 hours 32 minutes = _____ minutes

2) 9 hours 54 minutes = _____ minutes

3) 12 hours 35 minutes = _____ minutes

4) 2 hours 42 minutes = _____ minutes

5) 7 hours 11 minutes = _____ minutes

6) 3 hours 49 minutes = _____ minutes

7) 6 hours 53 minutes = _____ minutes

8) 9 hours 17 minutes = _____ minutes

CHAPTER 5 - TIME - CONVERSIONS

Hours and Minutes

Example:
2 hours 10 minutes = _____ minutes

1 hour = 60 minutes
2 hours = 2 x 60 minutes = **120 minutes**
2 hours 10 minutes = **120 minutes** + 10 minutes = **130 minutes**

Convert the following to minutes

1) 11 hours 22 minutes = _____ minutes

2) 14 hours 16 minutes = _____ minutes

3) 15 hours 12 minutes = _____ minutes

4) 16 hours 10 minutes = _____ minutes

5) 13 hours 47 minutes = _____ minutes

6) 10 hours 12 minutes = _____ minutes

7) 8 hours 31 minutes = _____ minutes

8) 5 hours 18 minutes = _____ minutes

CHAPTER 6 - ELAPSED TIME

CHAPTER 6 - ELAPSED TIME

Elapsed Time

Elapsed Time is the amount of time that passes from the start of an event to its finish. In simplest terms, elapsed time is how much time goes by from one time (say 3:35 pm) to another (6:20 pm).

- The hour hand on the clock is the shorter hand.
- The minute hand on the clock is the longer hand.
- We read time by looking at the hour hand first and then counting the minute hand.
- Each number on the clock equals five minutes.

CHAPTER 6 - ELAPSED TIME

Time on Digital Clocks

Find the elapsed time for each problem.

Start time	End time	Elapsed time
		
		
		
		
		

CHAPTER 6 - ELAPSED TIME

Time on Digital Clocks

Find the elapsed time for each problem.

Start time	End time	Elapsed time
		
		
		
		
		

CHAPTER 6 - ELAPSED TIME

Work out the elapsed time between the times on the two clocks.


TO

_____ minutes


TO

_____ minutes


TO

_____ minutes


TO

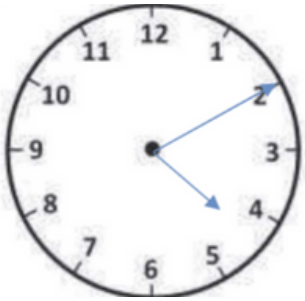
_____ minutes


TO

_____ minutes

CHAPTER 6 - ELAPSED TIME

Work out the elapsed time between the times on the two clocks.


TO

_____ minutes


TO

_____ minutes


TO

_____ minutes


TO

_____ minutes


TO

_____ minutes

CHAPTER 6 - ELAPSED TIME

Work out the elapsed time between the times on the two clocks.


TO

_____ minutes


TO

_____ minutes


TO

_____ minutes


TO

_____ minutes


TO

_____ minutes

CHAPTER 6 - ELAPSED TIME

Work out the elapsed time between the times on the two clocks.


TO

___ hours _____ minutes


TO

___ hours _____ minutes


TO

___ hours _____ minutes


TO

___ hours _____ minutes


TO

___ hours _____ minutes

CHAPTER 6 - ELAPSED TIME

End Time: Nearest Hour

Find the end time for each problem.

Q.No	Start Time	End Time	Elapsed Time
1)	6:00 A.M.		3 hours
2)	5:00 P.M.		6 hours
3)	2:00 A.M.		5 hours
4)	3:00 P.M.		7 hours
5)	5:00 A.M.		3 hours
6)	7:00 P.M.		4 hours
7)	Noon		5 hours
8)	6:00 A.M.		1 hour
9)	7:00 A.M.		2 hours
10)	2:00 P.M.		8 hours
11)	1:00 P.M.		5 hours
12)	10:00 P.M.		2 hours
13)	3:00 A.M.		4 hours
14)	1:00 P.M.		7 hours
15)	9:00 A.M.		2 hours

CHAPTER 6 - ELAPSED TIME

Time Word Problems

Solve the following word problems. Show number sentence and your workings.

1) Peter started playing tennis at 16:00 and played for 120 minutes. At what time did he stop playing?

2) I usually start working at 8:30 in the morning and finish by 17:30. How long do I usually work per day?

3) My dog slept for 3,600 seconds. How many minutes did it sleep?

CHAPTER 6 - ELAPSED TIME

Time Word Problems

Solve the following word problems. Show number sentence and your workings.

4) We started doing out exercises at 14:40 and finished at 17:40. For how long did we do our exercises?

5) There are 60 seconds in a minute. How many seconds are there in 20 minutes?

6) I can walk 100 meters in 1000 seconds. How many minutes will it take me to walk 1 meter?

CHAPTER 6 - ELAPSED TIME

Time Word Problems

Solve the following word problems. Show number sentence and your workings.

1) Mario started doing his homework at 17:15 and studied for 60 minutes. At what time did he stop studying?

2) I usually go to gym at 11:45 in the morning and finish by 14:45. How long do I usually stay in the gym?

3) It takes me 25 seconds to read a page in a book. How many minutes will it take me to read 12 pages?

CHAPTER 6 - ELAPSED TIME

Time Word Problems

Solve the following word problems. Show number sentence and your workings.

4) A football game started at 20:30. The game lasted 120 minutes. At what time did the game finish?

5) We went to bed at 21:20 and woke up at 6:20 the next morning. How long did we sleep?

6) I can type 20 words in 30 seconds. How long will it take me to type 500 words in minutes?

CHAPTER 6 - ELAPSED TIME

Time Word Problems

Solve the following word problems. Show number sentence and your workings.

1) Zara started doing yoga at 19:00 and did this for 60 minutes. At what time did she stop?

2) I usually come home from work at 19:35. If I leave the office at 18:30. how long does it take me to get home?

3) A film started at 21:12 and lasted 103 minutes. At what time did the film end?

CHAPTER 6 - ELAPSED TIME

Time Word Problems

Solve the following word problems. Show number sentence and your workings.

4) I earn an average of 100 dollars per day. How much do I earn in 12 weeks?

5) A bricklayer can lay 2 bricks in 20 seconds. How many bricks can he lay in 20 minutes?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

1) Jenna begins her morning jog at 4:05 A.M. She jogs 45 minutes. What time is Jenna done jogging?

2) Jake goes for a 1 hour and 15 minutes bike ride every day. On Monday, he begins his bike ride at 3:58 P.M. What time will he finish riding his bike?

3) Sylvia works for 8 hours a day at a restaurant. If she begins work at 8:00 A.M., what time will she go home?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

4) Camille took her cookies out of the oven at 2:12 P.M. She let them cool on the kitchen table for 20 minutes before she put them on a plate. What time did Camille put her cookies on a plate?

5) Lou arrived at the bank at 7:10 A.M. The sign on the door said:

Sorry, we're closed. Bank Hours: 8:00 A.M. - 5:00 P.M.

How long will Lou have to wait for the bank to open?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

1) Jessica puts cookies in the oven at 7:00 A.M. They need to cook for 18 minutes. What time should Jessica take the cookies out of the oven?

2) Sarah rents a movie that is 1 hour and 24 minutes long. She starts watching the movie at 5:00 P.M. What time will the movie end?

3) Michael begins reading his book at 8:00 A.M. He stops reading at 9:04. How long did Michael read his book?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

4) Bob left for his grandmother's house at 5:00 A.M. He drove for 2 hours and 22 minutes. What time did he arrive?

5) Paul and Norm worked on a project from 3:00 P.M. to 4:13 P.M. How long did they work on the project?

6) Cassandra's watch says it is 2:00 P.M. She will go to dinner in 3 hours and 20 minutes. What time will she go to dinner?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

1) Oliver started looking for his missing cat at 2:40. If he found it at 6:00, how long did he spend looking?

2) Faye took a train from her house to the state capitol. The train left at 1:05 and got to the capitol at 3:50. How long was the train ride?

3) Megan finished cleaning her room at 5:45. If she had started cleaning it at 3:15, how long did it take her to clean her room?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

4) Maria finished washing clothes at 9:30. If she had started at 6:15, how long would she have spent washing clothes?

5) Ned started cleaning up his yard at 6:35. If he finally finished at 7:40, how long did Ned spend cleaning his yard?

6) Paul started reading a book at 3:00. If he finished it at 4:00, how long did he spend reading?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

7) Debby was helping her mom cook dinner. They finished the meal at 7:35. If they started cooking at 6:20, how long did it take them?

8) Gwen and her friends left for the park at 6:55. If they got back at 9:55, how long were they at the park?

9) Katie drove to her aunt's house, arriving at 9:50. If Katie started her drive at 6:15, how long did the drive take?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

10) Cody was invited to birthday party that started at 3:30. If the party ended at 7:25, how long did the party last?

11) Sarah went to the town carnival. She arrived at 2:35 and left at 5:55. How long did Sarah spend at the carnival?

12) Lana and her friends left for the park at 1:00. If they got back at 4:15, how long were they at the park?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

13) Jerry started reading a book at 3:30. If he finished it at 6:30, how long did he spend reading?

14) George started playing video games at 4:50. If he took a break at 7:15, how long had he been playing?

15) Gwen drove to her aunt's house, arriving at 8:45. If Gwen started her drive at 6:20, how long did the drive take?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

16) Ned started looking for his missing cat at 4:55. If he found it at 8:05, how long did he spend looking?

17) Debby's band practice started at 3:35. If the practice ended at 5:05, how long did it last?

18) Zoe took a train from her house to the state capitol. The train left at 1:10 and got to the capitol at 2:10. How long was the train ride?

CHAPTER 6 - ELAPSED TIME

Elapsed Time Word Problems

19) Olivia's parents left to go shopping at 3:35. If they got back home at 5:25, how long were they gone?

20) Oliver's father started working on his truck at 5:35. If he finished working on it at 7:20, how long did he spend working on it?

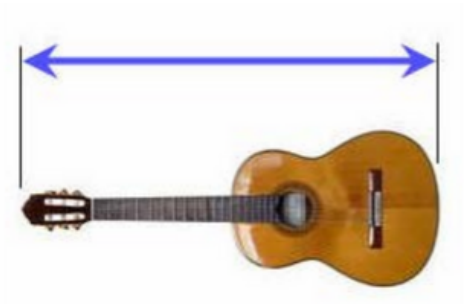
CHAPTER 7 - MEASUREMENTS (LENGTH)

CHAPTER 7 - MEASUREMENTS (LENGTH)

Units of Measurement

Measurement is finding a number that shows the size or amount of something. There are different units of measurement for different things, which has been explained below:

We can measure ...



Length

Length is how far from end to end. Also called Distance

The length of this guitar is about 1 meter (slightly more than 1 yard).

Area

Area is the size of a surface: how much is inside the boundary of a flat (2-dimensional) object such as a triangle or circle.

Here Ariel the Dog is waiting patiently inside 1 square meter.

CHAPTER 7 - MEASUREMENTS (LENGTH)

Units of Measurement

Volume

Volume is the amount of 3-dimensional space an object occupies. Also called Capacity.

This jug has exactly 1 liter of water in it (slightly more than 2 pints)

Mass (Weight)

Mass is how much matter somethings contains.

This bar of Gold has a Mass of 1 kilogram (slightly more than 2 pounds)

(Weight is “Heaviness” … the downward force caused by gravity on an object.)

CHAPTER 7 - MEASUREMENTS (LENGTH)

Units of Measurement

Temperature

How hot or cold a thing is.

Temperature is measured using a thermometer, usually in the Celsius or Fahrenheit scale.

This block of ice would measure 0° Celsius, or 32° Fahrenheit

Time

Time is the ongoing sequence of events taking place.

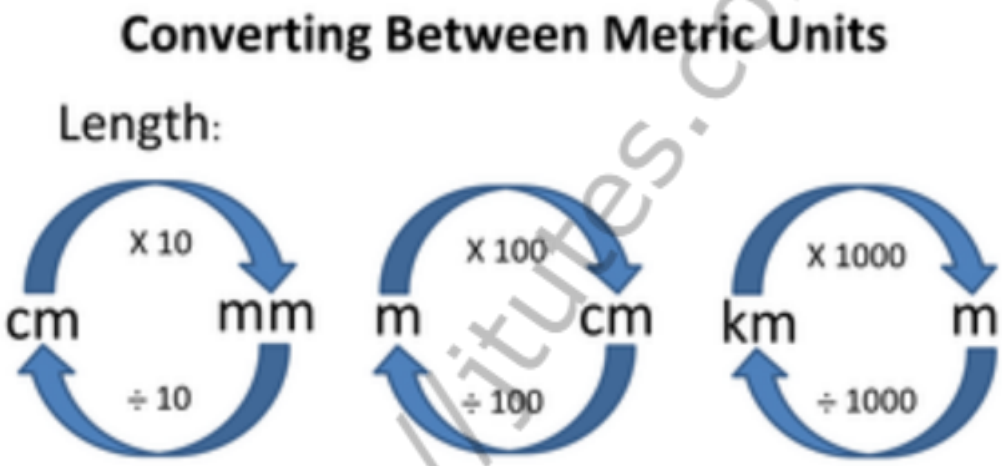
We measure time using seconds, minutes, hours, days, weeks, months and years.

CHAPTER 7 - MEASUREMENTS (LENGTH)

Conversion - Length

How to Convert Lengths

To convert length from one unit to another: **multiply by the correct number.**



CHAPTER 7 - MEASUREMENTS (LENGTH)

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1)	31 m =	cm	2)	22 cm =	mm
3)	18 cm =	mm	4)	85 cm =	mm
5)	53 m =	cm	6)	49 m =	cm
7)	38 m =	cm	8)	28 m =	cm
9)	72 m =	cm	10)	57 m =	cm

Convert to the units shown:

11)	1,000 mm =	cm	12)	2,000 cm =	m
13)	7,000 cm =	m	14)	7,000 mm =	m
15)	3,000 cm =	m	16)	3,000 mm =	m
17)	1,000 cm =	m	18)	5,000 cm =	m
19)	2,000 mm =	m	20)	6,000 cm =	m

CHAPTER 7 - MEASUREMENTS (LENGTH)

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1)	54 m =	cm	2)	55 m =	cm
3)	69 m =	cm	4)	63 m =	mm
5)	53 cm =	mm	6)	30 m =	cm
7)	47 m =	mm	8)	71 cm =	mm
9)	44 cm =	mm	10)	45 m =	cm

Convert to the units shown:

11)	5,000 cm =	m	12)	5,000 mm =	cm
13)	4,000 mm =	m	14)	8,000 mm =	cm
15)	8,000 cm =	m	16)	2,000 mm =	m
17)	9,000 cm =	m	18)	6,000 cm =	m
19)	1,000 mm =	cm	20)	2,000 mm =	cm

CHAPTER 7 - MEASUREMENTS (LENGTH)

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1) 26 m = cm
2) 52 cm = mm
3) 12 m = cm
4) 55 m = cm
5) 23 m = cm
6) 58 m = mm
7) 29 m = mm
8) 63 cm = mm
9) 74 m = cm
10) 55 cm = mm

Convert to the units shown:

11) 6,000 mm = m
12) 4,000 mm = cm
13) 9,000 mm = cm
14) 2,000 cm = m
15) 8,000 cm = m
16) 5,000 mm = cm
17) 1,000 mm = cm
18) 4,000 mm = m
19) 7,000 mm = cm
20) 3,000 mm = cm

CHAPTER 7 - MEASUREMENTS (LENGTH)

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1)	31 m =	cm	2)	85 m =	mm
3)	94 m =	cm	4)	55 m =	cm
5)	30 m =	mm	6)	65 cm =	mm
7)	14 m =	mm	8)	56 m =	cm
9)	11 cm =	mm	10)	47 m =	cm

Convert to the units shown:

11)	4,000 mm =	m	12)	3,000 cm =	m
13)	2,000 cm =	m	14)	6,000 cm =	m
15)	9,000 mm =	cm	16)	1,000 mm =	cm
17)	8,000 cm =	m	18)	5,000 cm =	m
19)	8,000 mm =	cm	20)	7,000 mm =	cm

CHAPTER 7 - MEASUREMENTS (LENGTH)

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1)	96 cm =	mm	2)	89 m =	mm
3)	11 m =	mm	4)	82 m =	cm
5)	73 cm =	mm	6)	13 m =	mm
7)	39 m =	mm	8)	12 m =	cm
9)	23 cm =	cm	10)	97 m =	cm

Convert to the units shown:

11)	7,000 cm =	m	12)	4,000 cm =	m
13)	2,000 mm =	m	14)	8,000 mm =	cm
15)	6,000 cm =	m	16)	1,000 mm =	cm
17)	3,000 cm =	m	18)	6,000 mm =	m
19)	5,000 mm =	cm	20)	5,000 mm =	m

CHAPTER 7 - MEASUREMENTS (LENGTH)

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1)	26 m =	cm	2)	97 m =	cm
3)	69 m =	mm	4)	97 cm =	mm
5)	35 m =	cm	6)	86 m =	cm
7)	78 cm =	mm	8)	44 m =	mm
9)	30 m =	cm	10)	95 m =	mm

Convert to the units shown:

11)	9,000 cm =	m	12)	6,000 mm =	cm
13)	3,000 mm =	cm	14)	7,000 mm =	m
15)	5,000 mm =	cm	16)	6,000 cm =	m
17)	7,000 mm =	cm	18)	5,000 cm =	m
19)	8,000 cm =	m	20)	4,000 cm =	m

CHAPTER 7 - MEASUREMENTS (LENGTH)

Length Word Problems (Feet & Inches)

Read and answer each question:

1) The flag pole outside the school is 12 feet tall. But the school decided to change to a taller flag pole that is 14 feet tall. How much taller is the new flag pole?

2) Carrie was 4 ft. 11 in. tall last year. She grew 6 inches in the past year. How tall is she now?

3) Jason's laptop computer is 15 inches long. The width is 3 inches longer than the length. What is the width of Jason's computer?

CHAPTER 7 - MEASUREMENTS (LENGTH)

Length Word Problems (Feet & Inches)

Read and answer each question:

4) The pink poster is 1 ft. 4 in wide and the blue poster is 19 in. wide. Which one is wider?

5) The bench is 3 ft. 1 in. long. If four benches are put alongside in the gym, what is the total length of four benches?

6) Jack has a piece of string that is 24 in. long. If he divides it into 6 equal pieces, what is the length of each piece of shorter string?

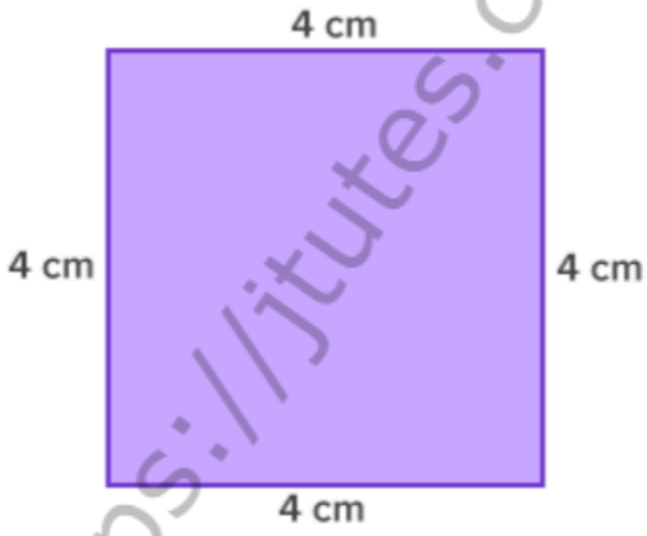
CHAPTER 8 - MEASUREMENTS (PERIMETER)

CHAPTER 8 - MEASUREMENTS (PERIMETER)

What is Perimeter?

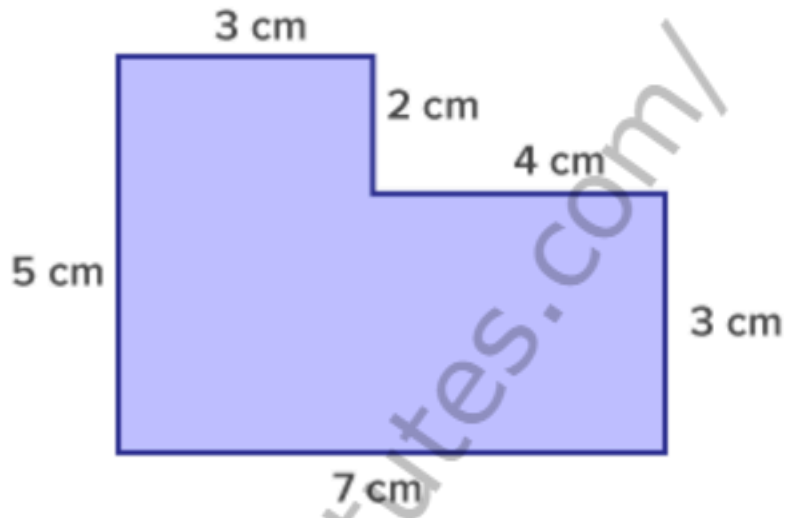
In geometry, perimeter can be defined as the path or the boundary that surrounds a shape. It can also be defined as the length of the outline of a shape.

The perimeter of all polygons can be determined by adding the lengths of their sides/edges.

Regular Polygons

Perimeter = 4 + 4 + 4 + 4 = 16 cm *OR* Perimeter of regular polygons = number of sides x length of one side = 4 x 4 = 16

CHAPTER 8 - MEASUREMENTS (PERIMETER)

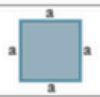
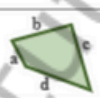
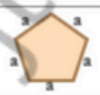
What is Perimeter?

Irregular Polygons

Perimeter of irregular polygons = 5 + 3 + 2 + 4 + 3 + 7 = 24 cm

CHAPTER 8 - MEASUREMENTS (PERIMETER)

What is Perimeter?

Here's how the perimeter of some common shapes is calculated:

Polygon name :	Polygon Picture/Image :	Perimeter Formula :
Equilateral Triangle		P = 3 x a
Scalene Triangle		P = a + b + c
Square		P = 4 x a
Rectangle		P = 2 (a + b)
Quadrilateral		P = a + b + c + d
Regular Pentagon		P = 5 x a
Regular Hexagon		P = 6 x a
Regular Octagon		P = 8 x a
Regular N-gon	A regular n-gon with each side a units long	P = n x a , where ***n*** is the number of sides and ***a*** is the lenght of the sides.

CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Rectangle

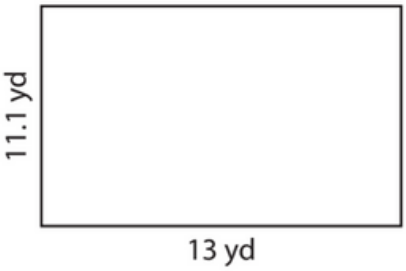
Find the perimeter of each rectangle.

1)

2)

3)

4)



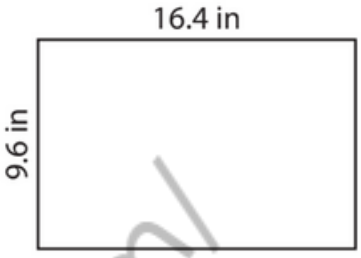
CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Rectangle

Find the perimeter of each rectangle.

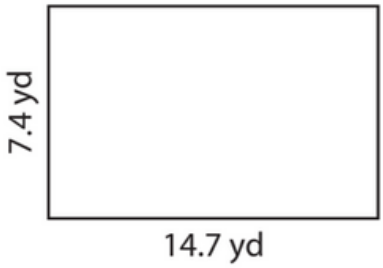
1)

2)



3)

4)



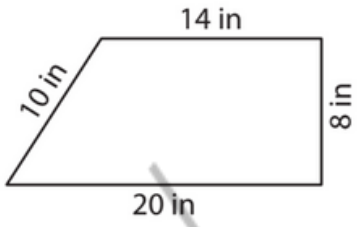
CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Quadrilateral

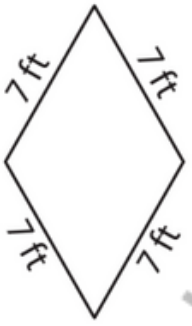
Find the perimeter of each quadrilateral.

1)

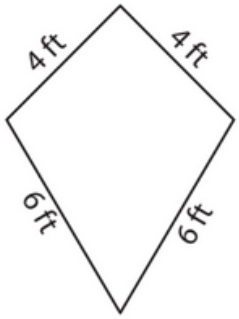
2)



3)



4)

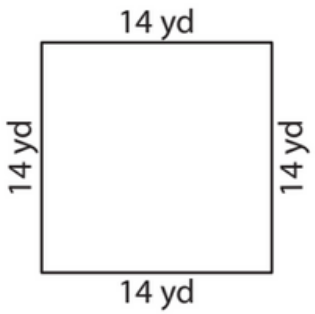


CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Quadrilateral

Find the perimeter of each quadrilateral.

1)



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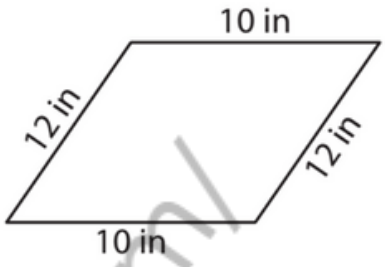
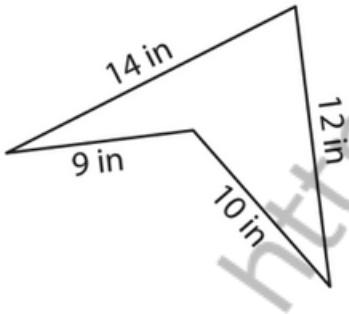


3)



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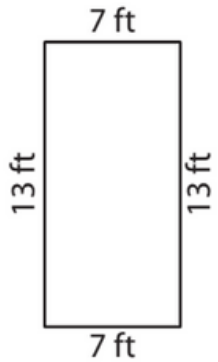
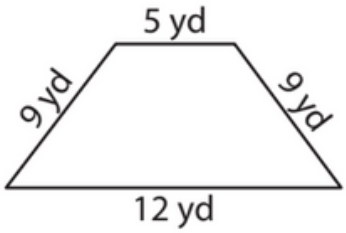


CHAPTER 8 - MEASUREMENTS (PERIMETER)

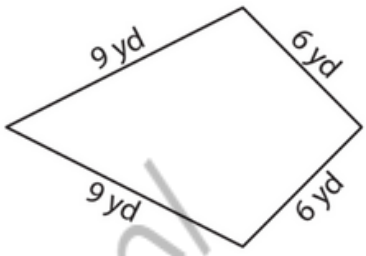
Perimeter of a Quadrilateral

Find the perimeter of each quadrilateral.

1)



2)



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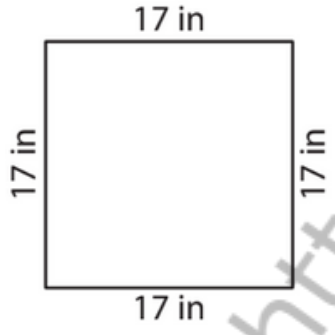
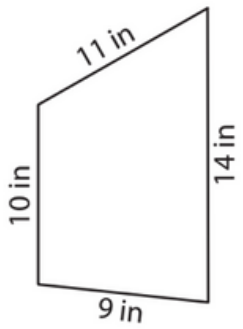


4)

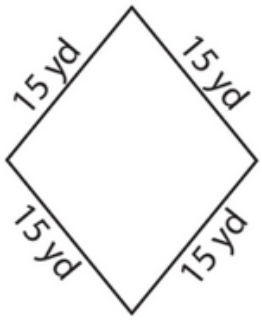


CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Quadrilateral

Find the perimeter of each quadrilateral.

1)



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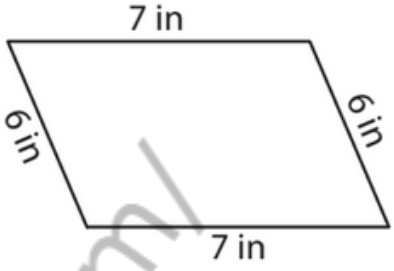

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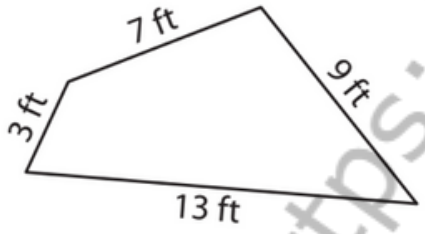
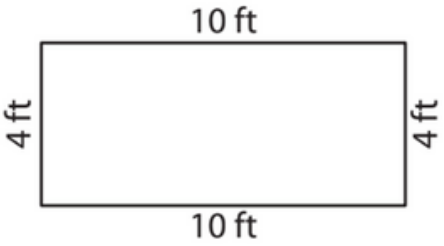


4)



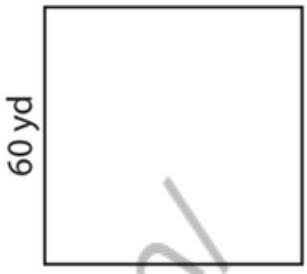
CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Square

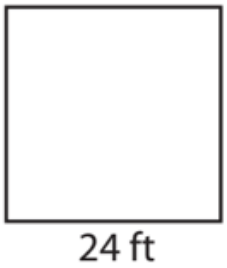
Find the perimeter of each square.

1)

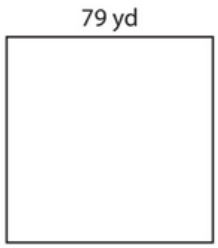
2)



3)



4)



CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Square

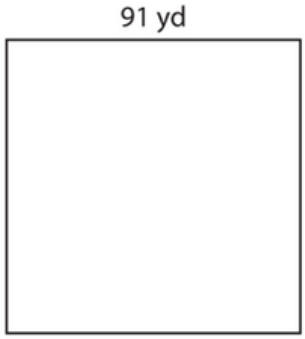
Find the perimeter of each square.

1)

2)

3)

4)

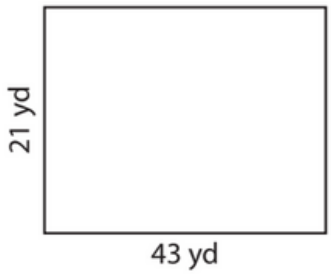


CHAPTER 8 - MEASUREMENTS (PERIMETER)

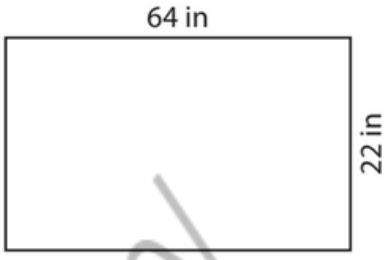
Perimeter of a Rectangle

Find the perimeter of each rectangle.

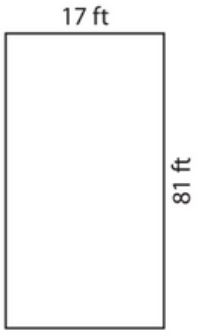
1)



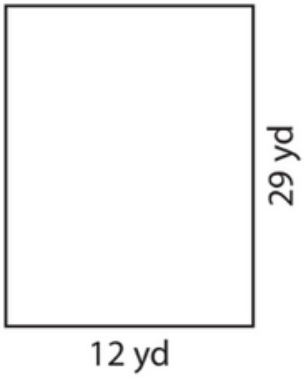
2)



3)



4)

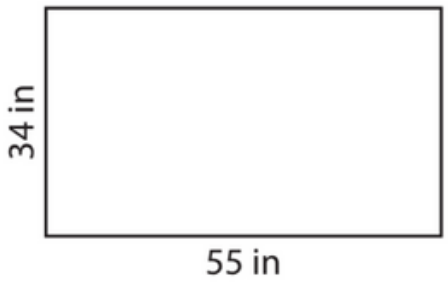


CHAPTER 8 - MEASUREMENTS (PERIMETER)

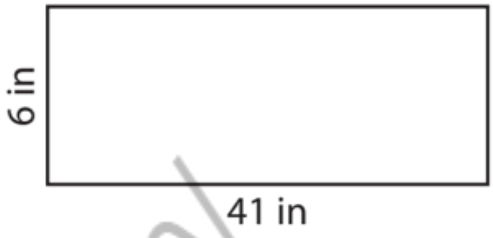
Perimeter of a Rectangle

Find the perimeter of each rectangle.

1)



2)



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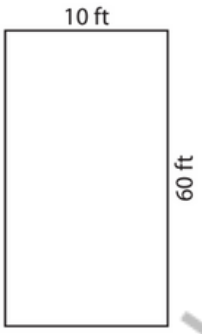
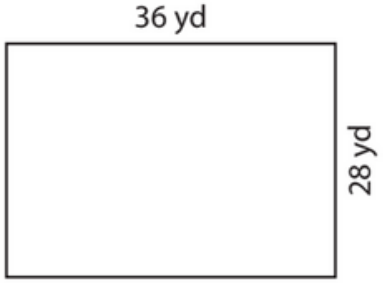


4)

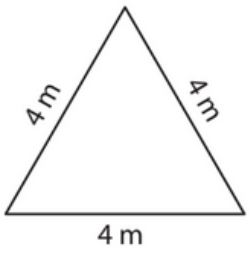


CHAPTER 8 - MEASUREMENTS (PERIMETER)

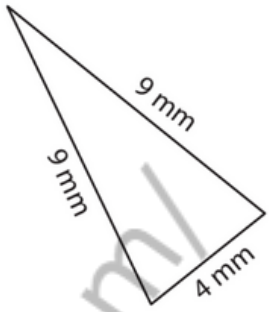
Perimeter of a Triangle

Find the perimeter of each triangle.

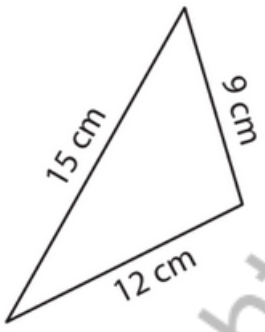
1)



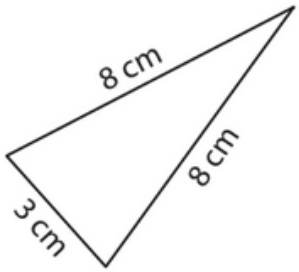
2)



3)



4)

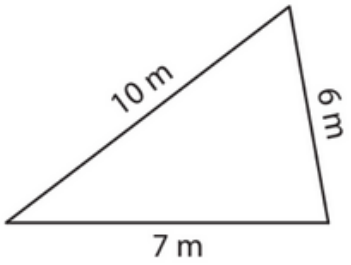


CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Triangle

Find the perimeter of each triangle.

1)



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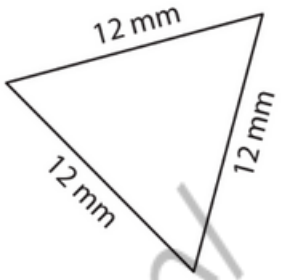

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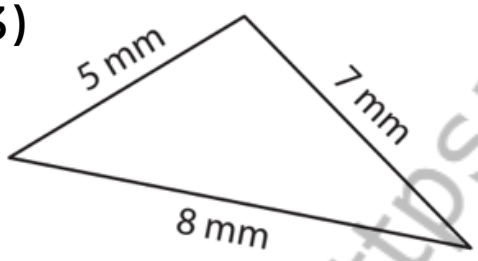

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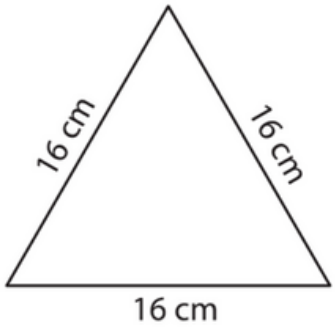

CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Triangle

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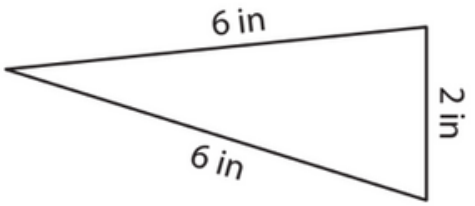
1)



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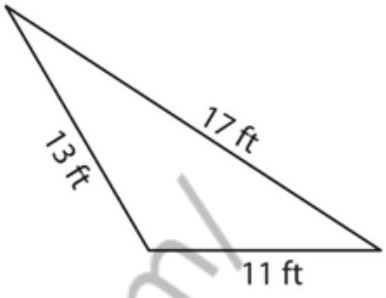

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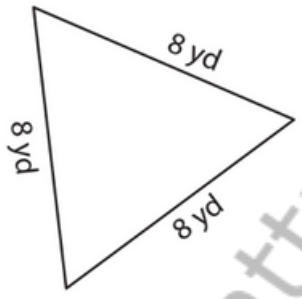

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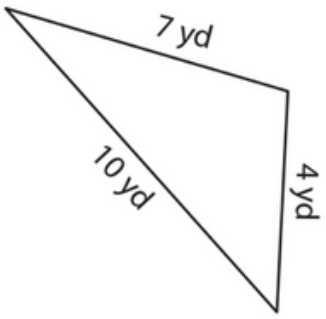

CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Triangle

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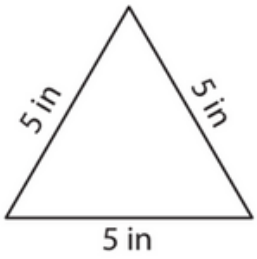
1)



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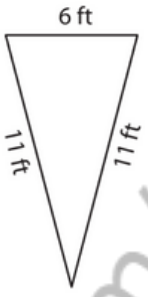

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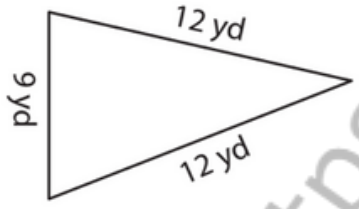

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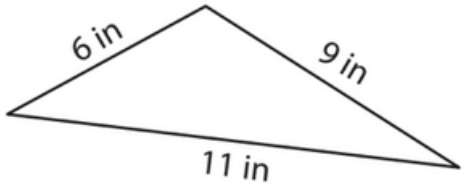
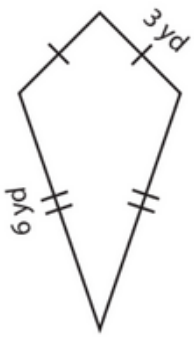


CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Quadrilateral

Find the perimeter of each quadrilateral.

1)



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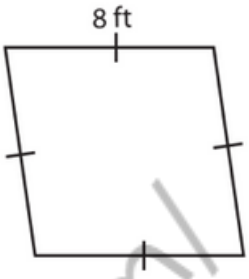

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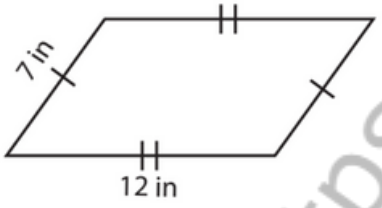

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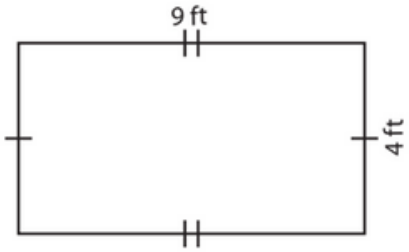
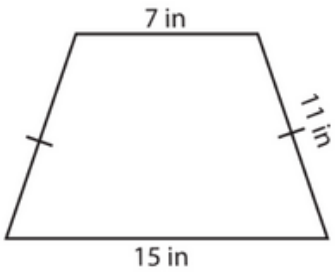


CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Quadrilateral

Find the perimeter of each quadrilateral.

1)



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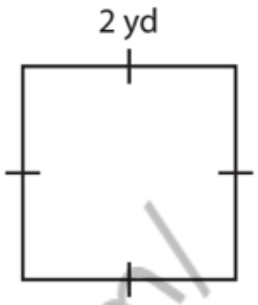

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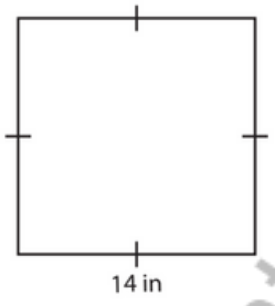

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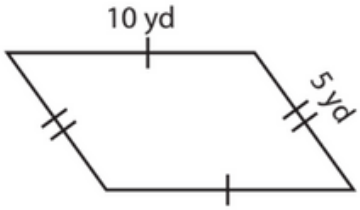

CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Quadrilateral

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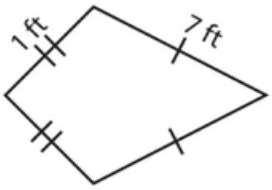

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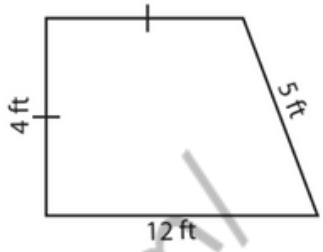

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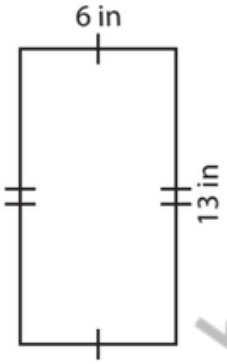

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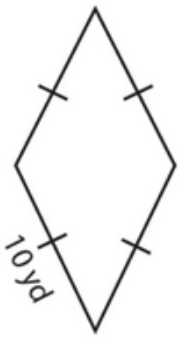
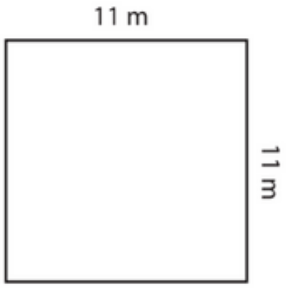


CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Square

Find the perimeter of each square.

1)



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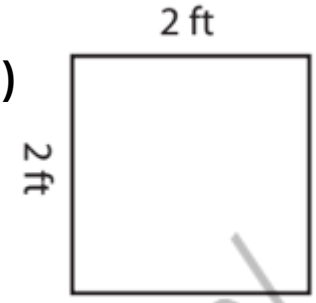

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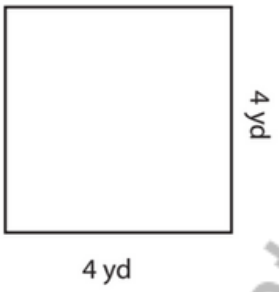

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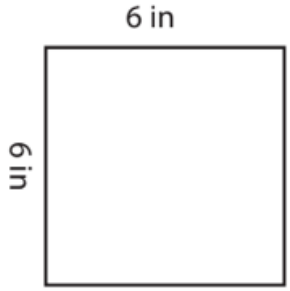

CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Square

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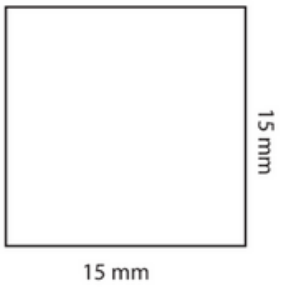
1)



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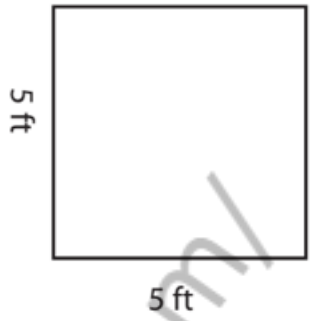

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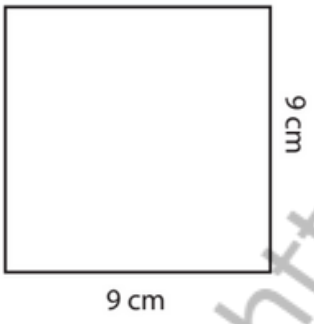

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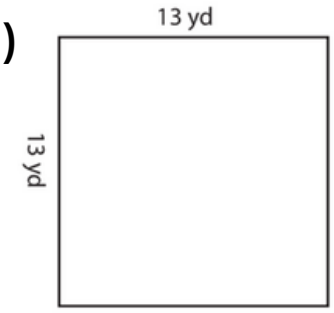

CHAPTER 8 - MEASUREMENTS (PERIMETER)

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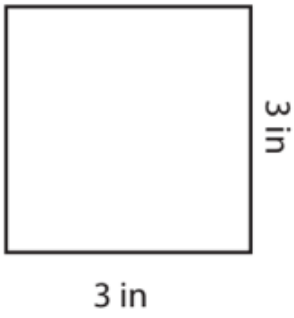
1)



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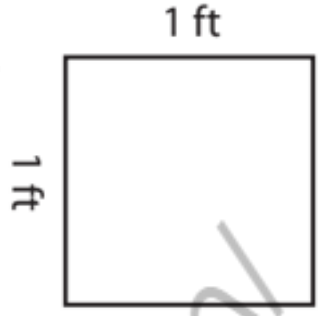

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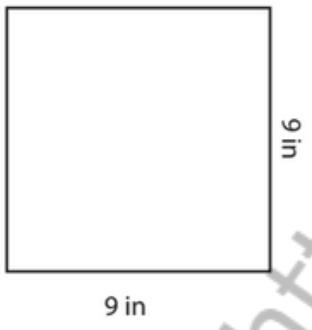

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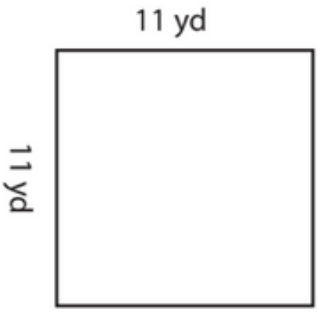

CHAPTER 8 - MEASUREMENTS (PERIMETER)

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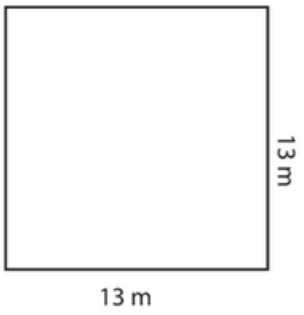

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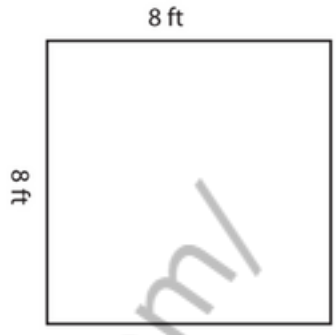

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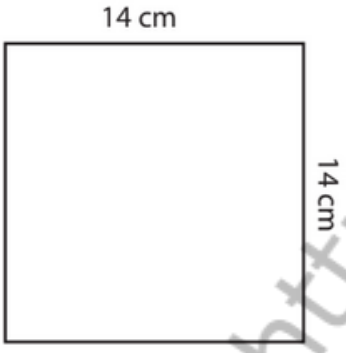

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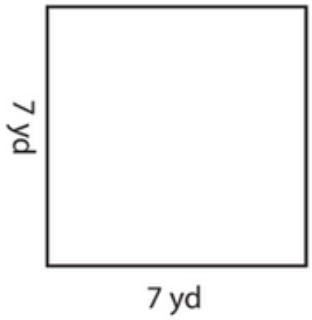
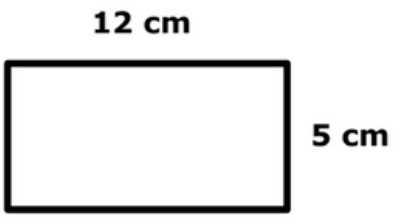


CHAPTER 8 - MEASUREMENTS (PERIMETER)

Perimeter of a Rectangle

Find the perimeter of each rectangle.

1)



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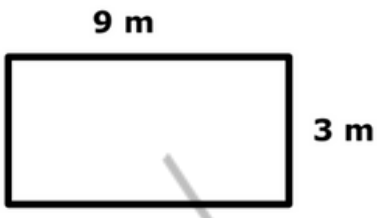

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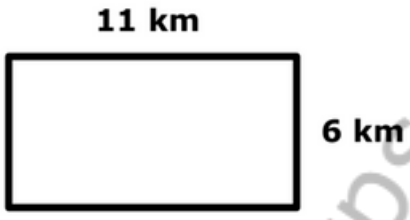

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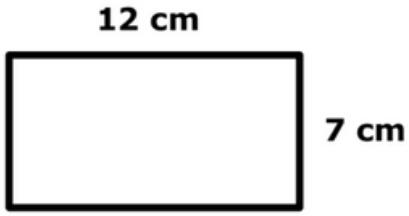


CHAPTER 9 - MEASUREMENTS (AREA)

CHAPTER 9 - MEASUREMENTS (AREA)

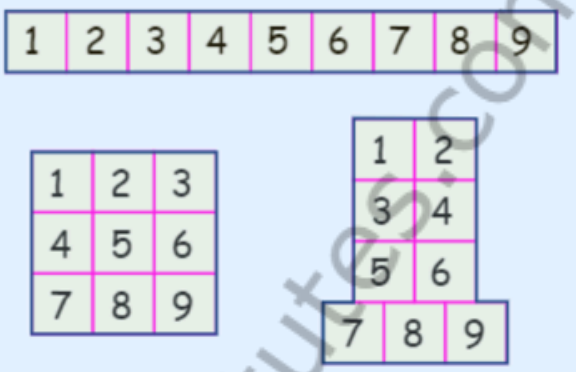
Units of Measurements

Area

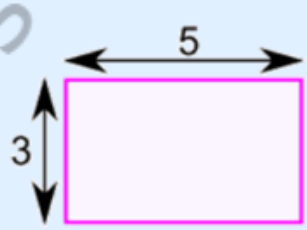
What is Area? Area is the size of a surface!

Example:

These shapes all have the same area of 9:



Example: What is the area of this rectangle?



The formula is:

$$\text{Area} = w \times h$$

w = width
h = height

The width is 5, and the height is 3, so we know **w = 5** and **h = 3**:

$$\text{Area} = 5 \times 3 = \mathbf{15}$$

CHAPTER 9 - MEASUREMENTS (AREA)

Units of Measurements

Area

Area of a square:

The area of a square is given by the formula:

Area = width x height

But since the width and height are the same, the formula is usually written as

Area = side^2 (s^2)

Area of a rectangle:

To find the area of a rectangle, multiply the length by the width. The formula is:

Area = Length * Width (L * W)

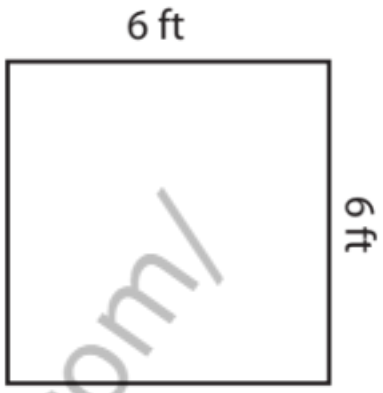
CHAPTER 9 - MEASUREMENTS (AREA)

Square - Area

Find the area of each square.

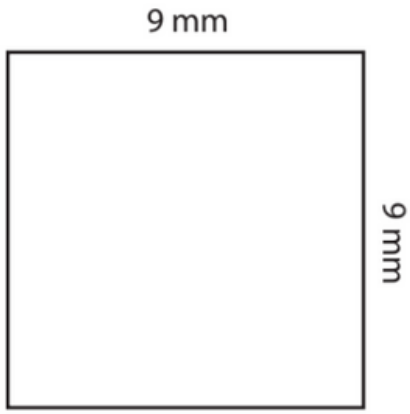
1)

2)



3)

4)



CHAPTER 9 - MEASUREMENTS (AREA)

Square - Area

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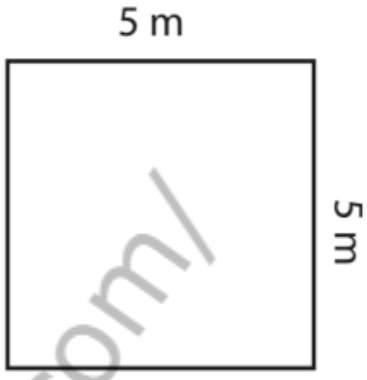
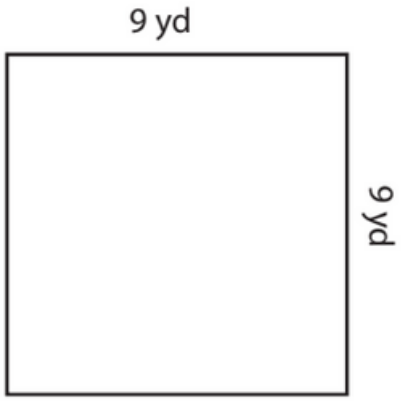


3)

4)



CHAPTER 9 - MEASUREMENTS (AREA)

Square - Area

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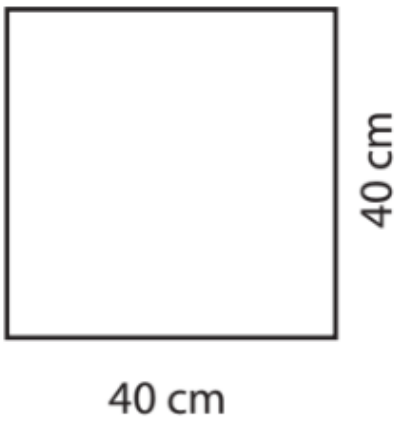
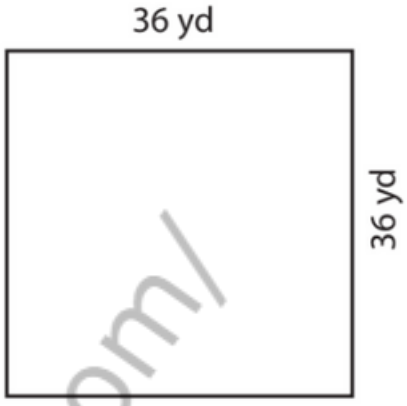


2)



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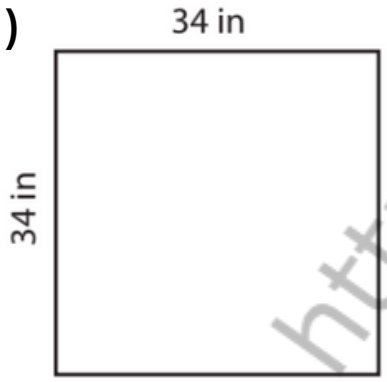

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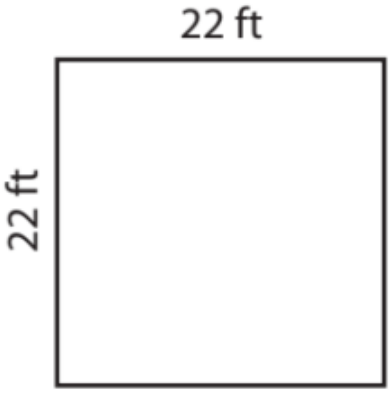
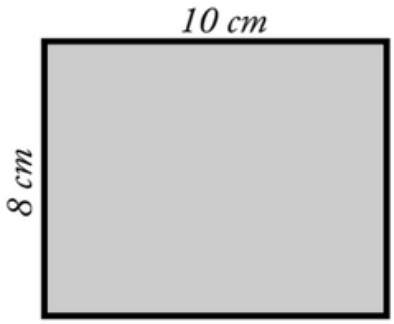


CHAPTER 9 - MEASUREMENTS (AREA)

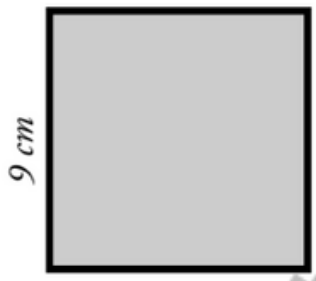
Area of a Rectangle



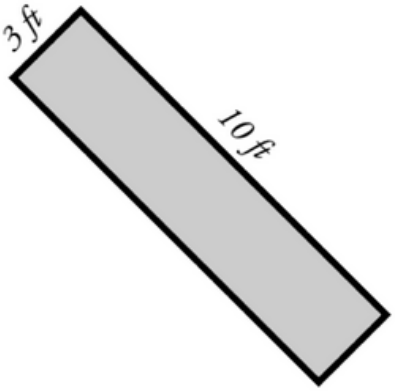
To find the area of a rectangle, use the formula **length x width = area.** This formula is often written as **l x w = A.**
The rectangle pictured here has a length of 10 cm and a width of 8 cm.
l=10 cm
w=8 cm
10 cm x 8 cm = 80 cm^2
Note that the area's unit is written as cm^2. This is said as "square centimeters" or "centimeters squared'.

Find the area of each rectangle.

1)



2)

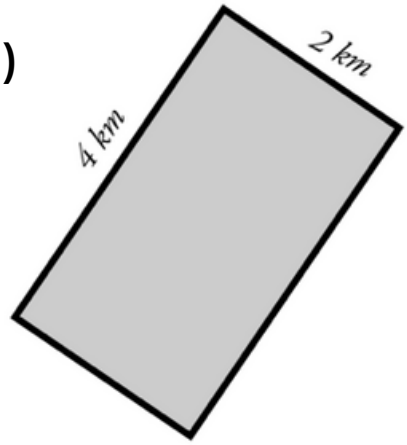


CHAPTER 9 - MEASUREMENTS (AREA)

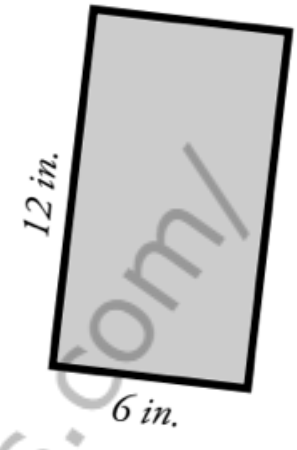
Area of a Rectangle

Find the area of each rectangle.

1)

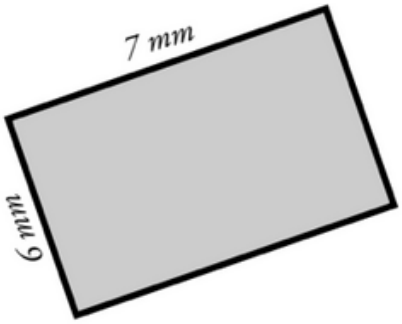


2)



3)

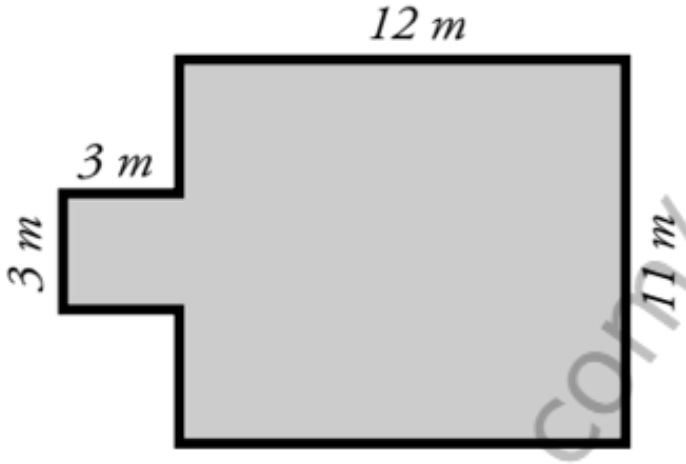
4)



CHAPTER 9 - MEASUREMENTS (AREA)

Area of a Rectangle

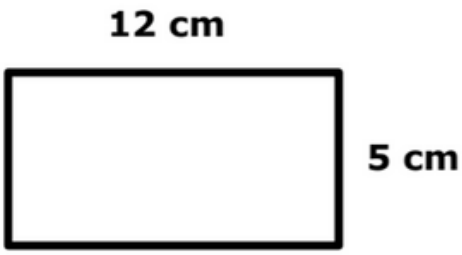
Find the area of the polygon. All corners are 90°.

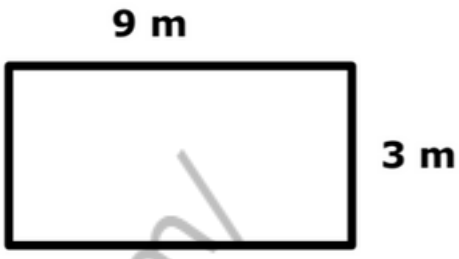


CHAPTER 9 - MEASUREMENTS (AREA)

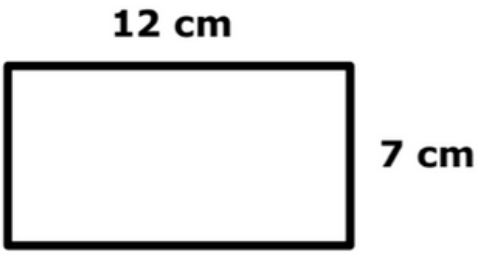
Area of a Rectangle

Find the area of each rectangle.

1) 

2) 

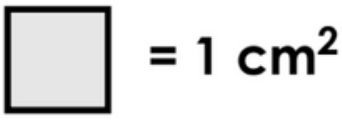
3) 

4) 

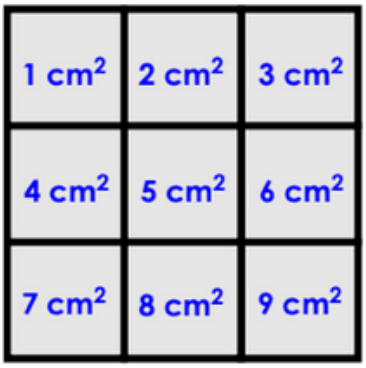
CHAPTER 9 - MEASUREMENTS (AREA)

Area of a Shape

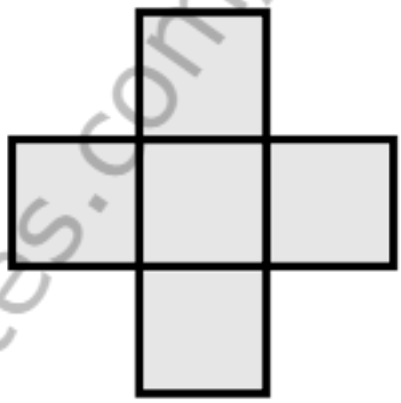
Find the area of each shape by counting the **square centimeters (cm^2).**



1)

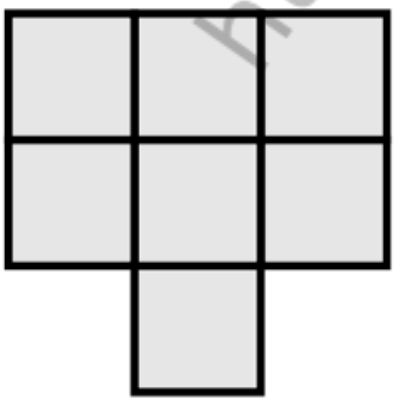


2)



9 cm^2

3)



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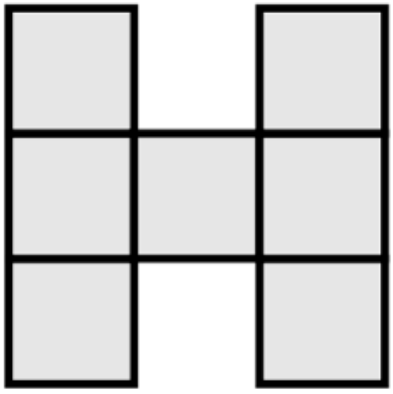
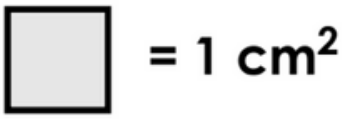


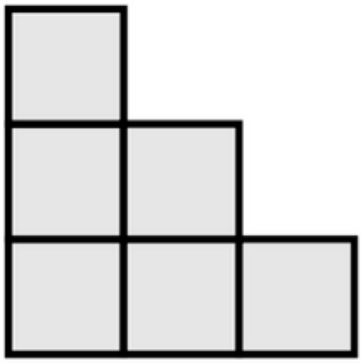
CHAPTER 9 - MEASUREMENTS (AREA)

Area of a Shape

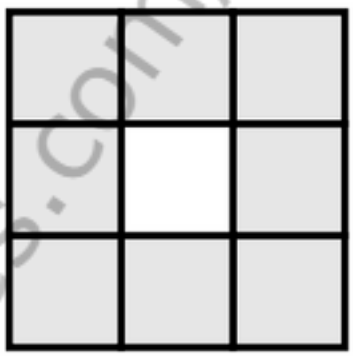
Find the area of each shape by counting the **square centimeters (cm^2).**



1)



2)



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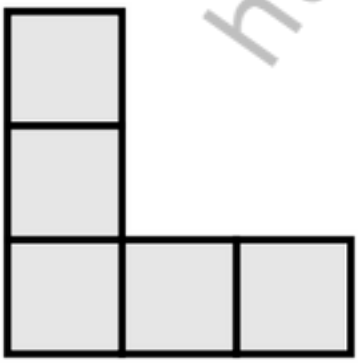
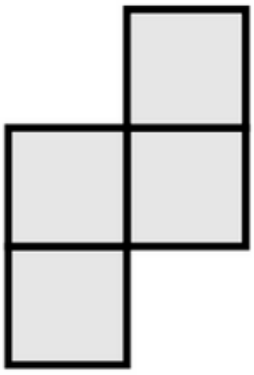


4)

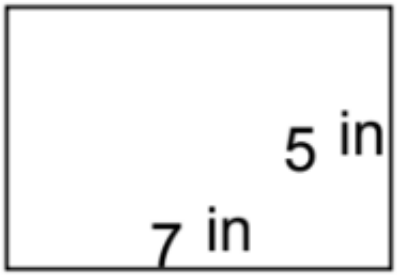


CHAPTER 9 - MEASUREMENTS (AREA)

Rectangles - Area

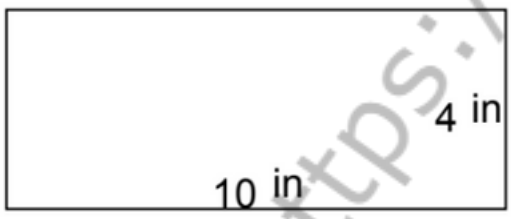
Find the area of each rectangle.

1)



2)

3)



4)

CHAPTER 9 - MEASUREMENTS (AREA)

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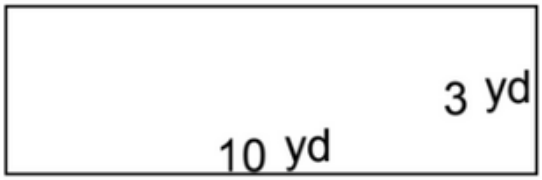
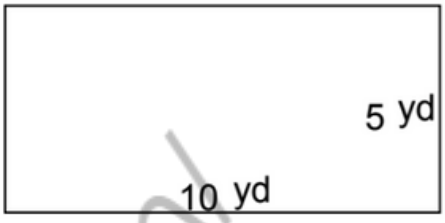
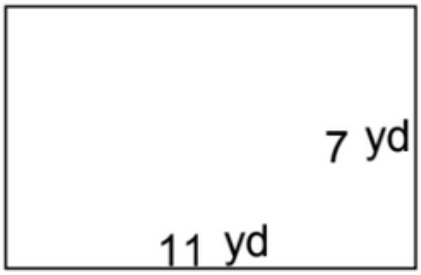
1) 

2) 

3) 

4) 

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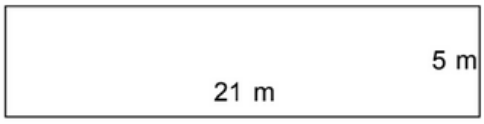
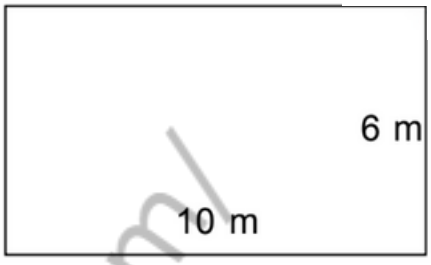
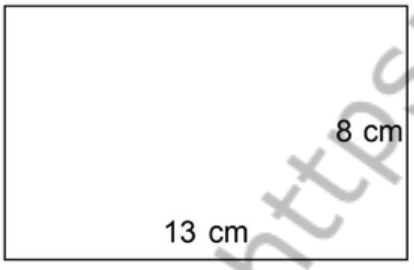
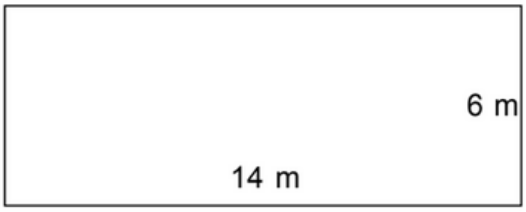
1) 

2) 

3) 

4) 

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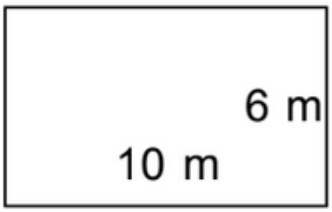
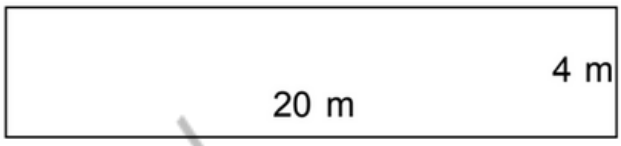
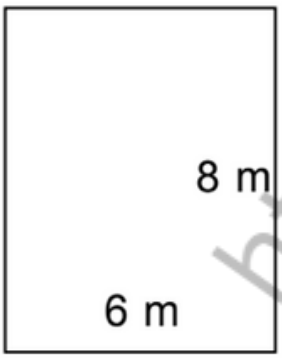
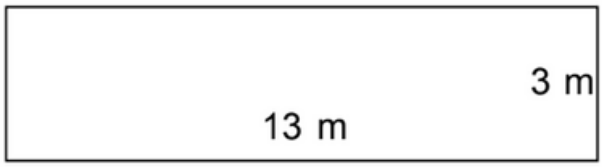
1) 

2) 

3) 

4) 

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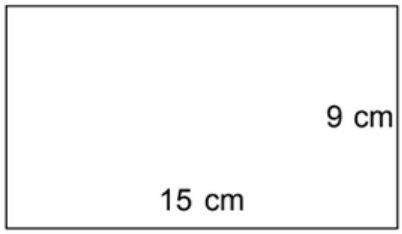
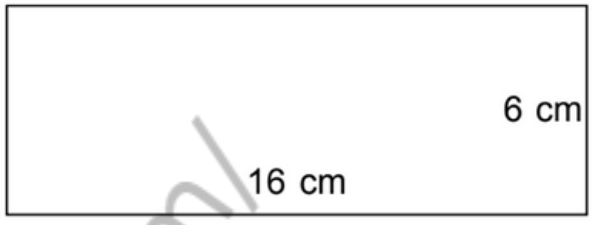
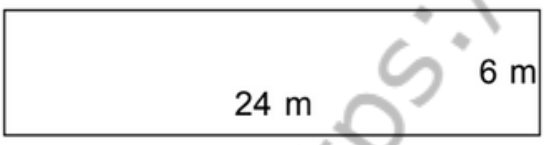


2)



3)



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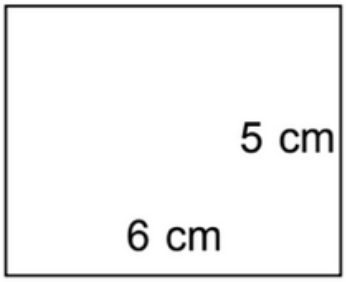

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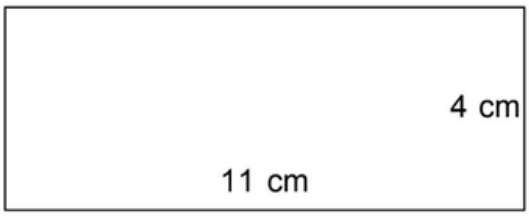
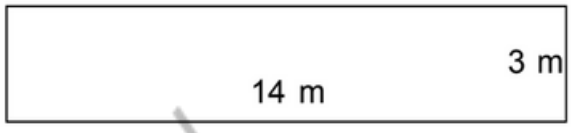
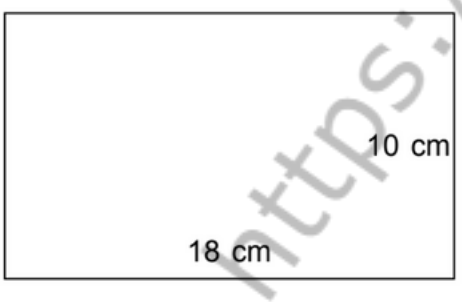
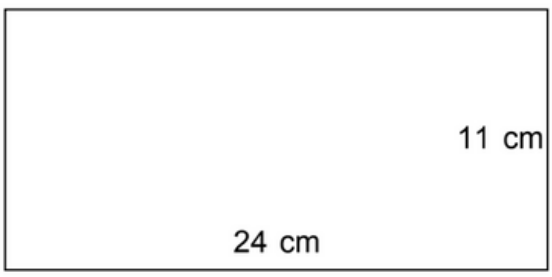
1) 

2) 

3) 

4) 

CHAPTER 9 - MEASUREMENTS (AREA)

Area of a Rectangle

1) Hugh orders a party banner for his son's birthday party. The length and width of the banner are 72 inches and 23 inches respectively. What is the area of the party banner?

2) Theo makes a decorative bookmark of size 2" x 6" for his teacher. Find the area of the bookmark.

3) Fran designed a flag that measured 9 inches in length and 5 inches in width. Find the area of the flag.

CHAPTER 9 - MEASUREMENTS (AREA)

Area of a Rectangle

4) Ellen renovates the foyer of an old farmhouse. The foyer is 15 feet long and 8 feet wide. Calculate the area of the foyer.

5) Bianca bought a baseplate of 12 inches length and 10 inches width. Find the area of the baseplate.

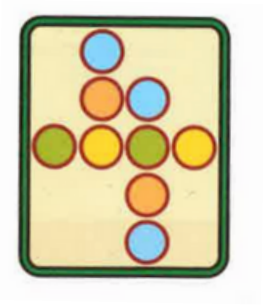
NAPLAN

WEEK 10 - MATERIAL FOR THIS WEEK IS AT THE END OF THE BOOK

ICAS

WEEK 4

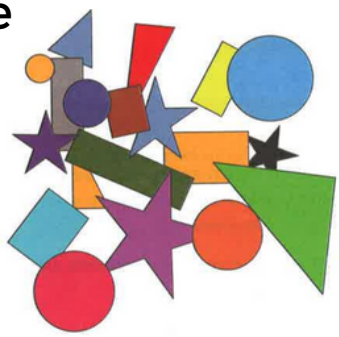
1) Jane put 9 bowls of jelly on a tray.



How many **MORE** bowls of jelly will fit on the tray?

(A) 9 (B) 11 (C) 16 (D) 20

2) Beth had 19 plastic shapes. There were only triangles, stars, circles and rectangles. How many triangles did Beth have?



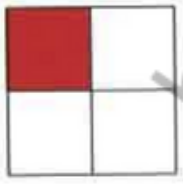
(A) 1 (B) 2 (C) 3 (D) 4

3) 3 x 4 = 2 x ?

What value must ? be?

(A) 4 (B) 5 (C) 6 (D) 12

4) Which of these shapes does **NOT** have one-quarter shaded?



(A)

(B)

(C)

(D)

5) Arun looked at the clock when he left home for his cricket game.

He got back home $3\frac{1}{2}$ hours later.
Which clock shows the time Arun got back home?

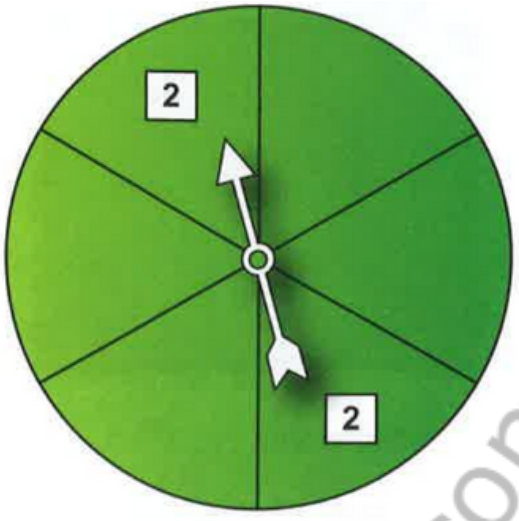
(A)

(B)

(C)

(D)

6) Sally is making a spinner by placing '2' or '3' in each of the six parts.



She wants the changes of the spinner landing on a '2' or on a '3' to be the same.

How many more cards with '2' does Sally need to add to her spinner?

(A) 1

(B) 2

(C) 3

(D) 4

7) Mal, Sam and Bob are taking turns on a balance board. Mal is heavier than Sam but lighter than Bob.

Which picture is correct?

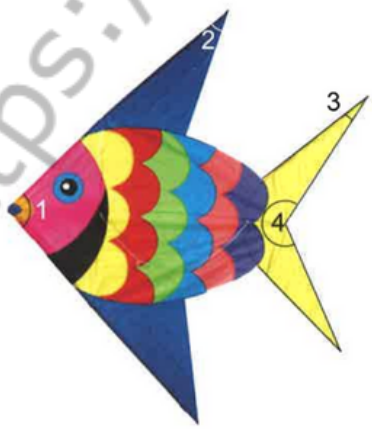
(A)

(B)

(C)

(D)

8) Leila had a kite. She measured some of the angles on the kite.



What is the order of the angles from smallest to largest?

(A) 3, 2, 1, 4
(B) 3, 2, 4, 1
(C) 2, 3, 1, 4
(D) 2, 3, 4, 1

9) Cai wrote down a number pattern.

97 → 93 → ? → 85 → 81

What number should ? be?

(A) 87
(B) 88
(C) 89
(D) 90

10) A teacher dropped his keys in a measuring jug of water.

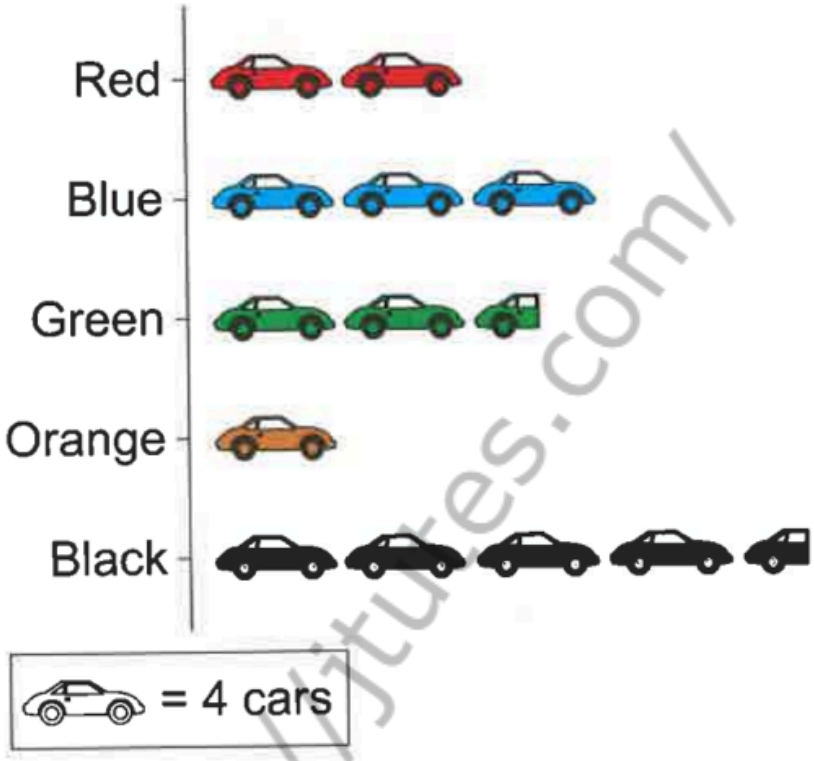
The level of the water rose form 4000 to 4100 on the scale on the jug.

What were the units of these measurements?

(A) litres
(B) millilitres
(C) grams
(D) kilograms

11) Mr Chipper makes toy cars in different colours.

The table shows the number of toy cars Mr Chipper made today.



How many black cars and green cars did Mr Chipper make altogether today?

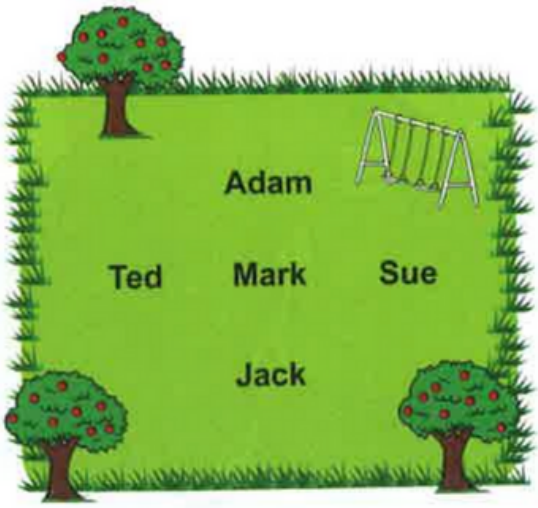
(A) 7

(B) 13

(C) 28

(D) 32

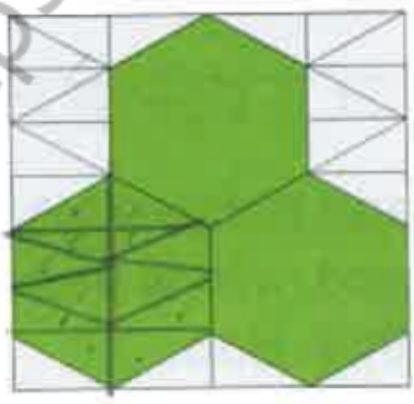
12) Five students are standing in a park.



Mark is facing Sue.
Who is standing behind Mark?

(A) Ted
(B) Sue
(C) Jack
(D) Adam

13) Lani drew three hexagons on triangular grid paper and shaded them green.



How many triangles did Lani shade?

(A) 18
(B) 20
(C) 30
(D) 36

14) 32 - 8 is _____ 16 + 9.

Which of these makes the statement true?

(A) smaller than
(B) equal to
(C) bigger than
(D) double

15) Mary drew a picture of a lion.

Mary turned it a quarter turn clockwise. Which of these shows how the picture looked after the turn?

(A)

(B)

(C)

(D)

16) Leila is helping her mum to bake cakes.

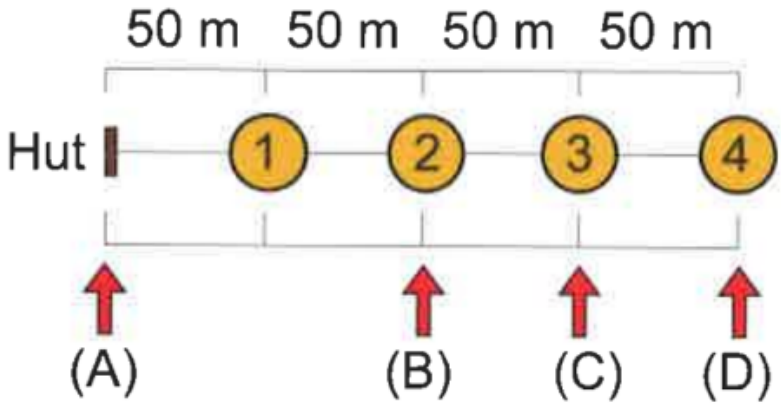
Each cake needs two cups of flour. For each cup of flour they need three eggs.

How many eggs does Leila need to make two cakes?

(A) 3
(B) 5
(C) 6
(D) 12

17) A ski lift with cable cars, numbered 1 to 4, has broken down. Mighty Mitch comes to the rescue.

He flies from the hut and brings the closest cable car back to the hut each time. Where is Mighty Mitch when he has flown a total of 400 metres?



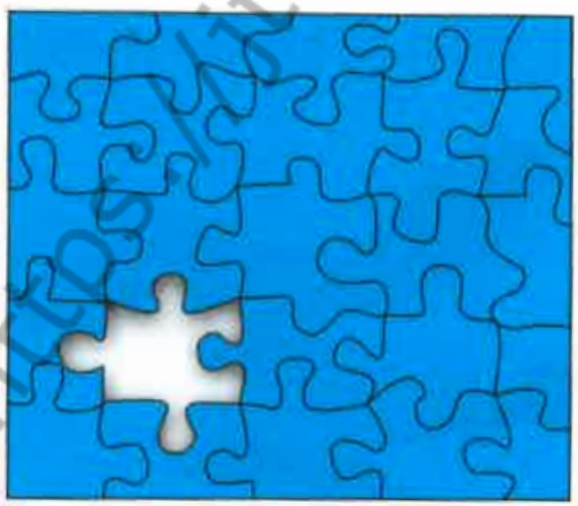
18) Rachel and Jun were throwing balls at a target. They scored 9 points every time they hit the target.

Rachel hit the target 15 times. She calculated that her score was: 15 x 9 = 135 points

Jun hit the target 14 times. He used Rachel's score to help him calculate his own total. Which calculation gives Jun his score?

(A) 135 - 15
(B) 135 - 14
(C) 135 - 9
(D) 135 - 1

19) Jim has lost a piece of his 'Blue Sky' jigsaw puzzle.



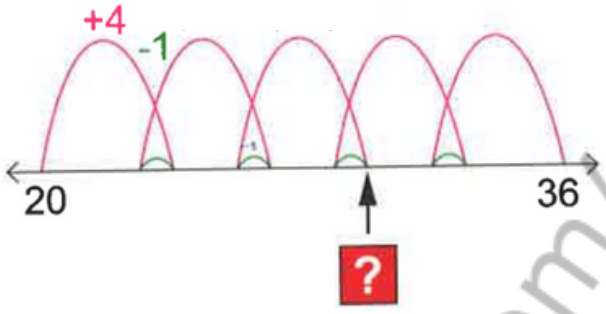
Which is the missing piece?

(A) (B) (C) (D)

20) Finn made a number pattern with the rule:

add 4, take away 1

He used a number line to show the pattern, starting at 20.



What number must ? be?

(A) 32
(B) 31
(C) 30
(D) 29

21) Last summer, the Taylors and the Jacksons went to the beach 60 times in total.

The Taylors made 12 more trips to the beach than the Jacksons did.

How many beach trips did the Taylors make?

(A) 24
(B) 36
(C) 42
(D) 48

22) There are 9 marbles in this bag.

Tom took out a green marble leaving 8 marbles in the bag.

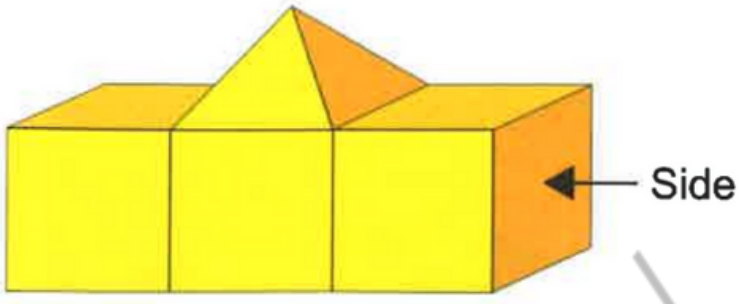
Then it was Julie's turn to take out a marble without looking.

Which two colours does Julie have the same chance of taking out?

(A) yellow and red
(B) green and red
(C) green and yellow
(D) red and blue

23) Larry built a solid using three cubes and a pyramid.

He drew the view from the side shown.

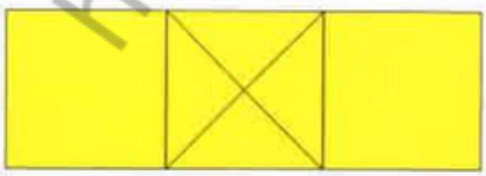


Which of these should be Larry's drawing?

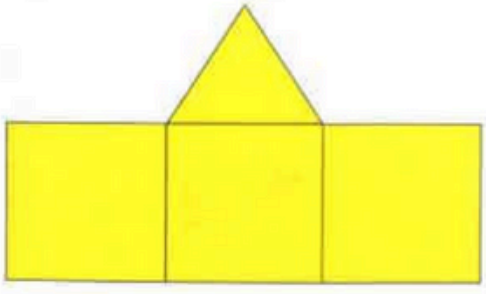
(A)

(B)

(C)



(D)



24) Greg weighed 9 identical buttons.

They weighed 27 grams.

How much will 5 buttons weigh?

(A) 9 grams
(B) 13 grams
(C) 15 grams
(D) 20 grams

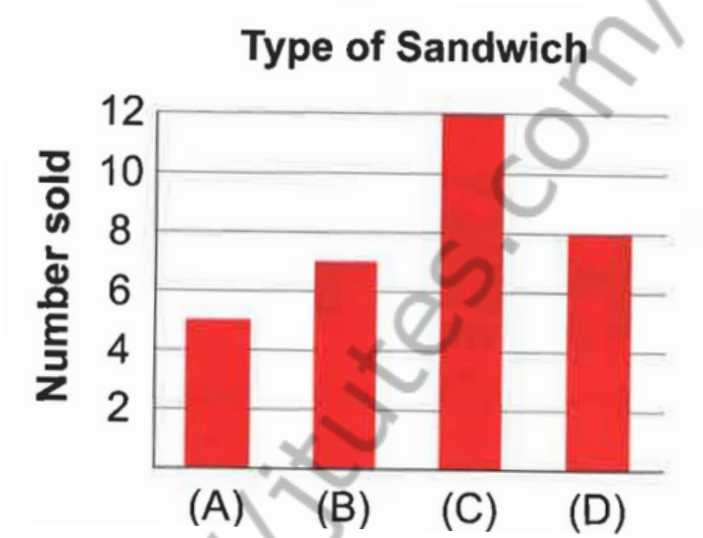
25) Faye thinks of a four-digit number.

- The thousands digit is 3 times the tens digit.
- The hundreds digit is even.
- The units digit is an odd number less than 5.

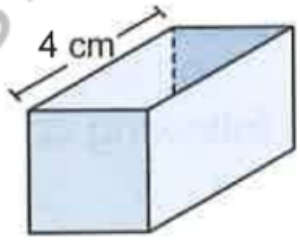
Which of the following could be Faye's number?

(A) 1933
(B) 2633
(C) 6425
(D) 9831

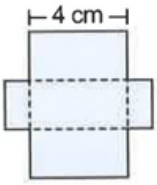
26) The canteen sells only fish, cheese, egg or salad sandwiches.
The canteen sold five more fish sandwiches than cheese sandwiches.
Fewer egg sandwiches were sold than salad sandwiches.
Which column represents the number of egg sandwiches sold?



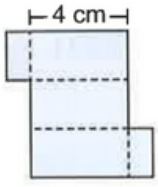
27) This picture shows a box without a lid.



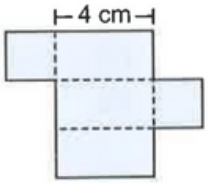
Which of these shows the net for this box?



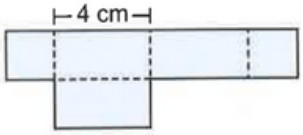
(A)



(B)

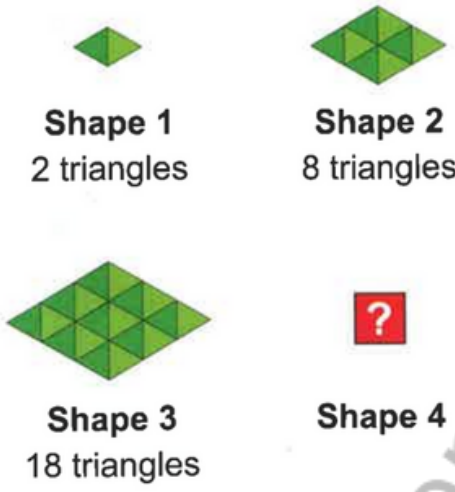


(C)



(D)

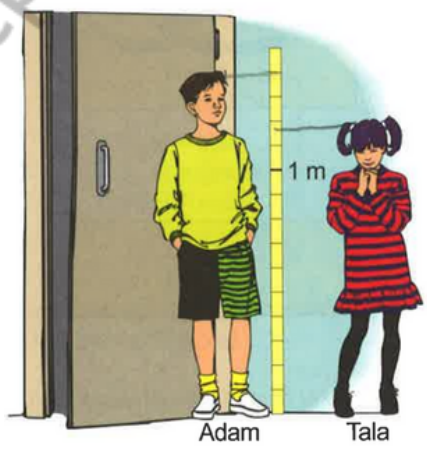
28) Emma is making a pattern of diamonds using small triangles.



How many small triangles will she need to make the 4th shape in her pattern?

(A) 32
(B) 28
(C) 25
(D) 22

29) Using the ruler in the picture, how much taller than Tala is Adam?

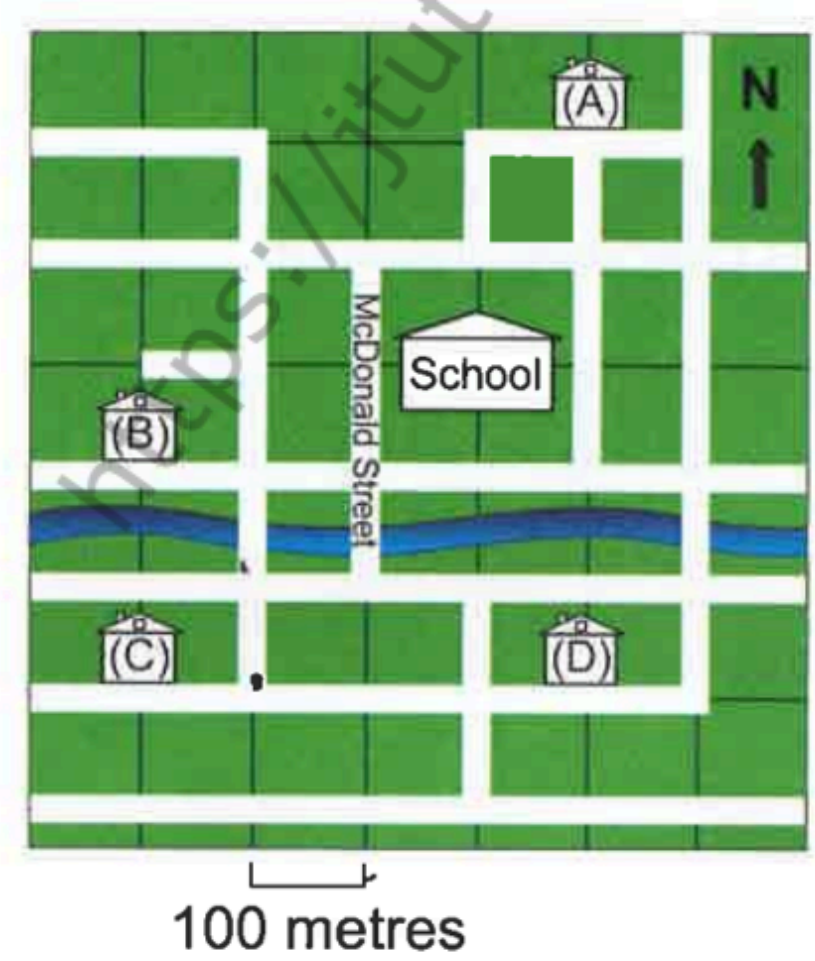


(A) 2 centimetres
(B) 20 centimetres
(C) 2 metres
(D) 20 metres

30) Freya left this note with the directions to her house.

Leave school, turn left onto McDonald Street and walk to the end. Turn right and walk 100 metres. Turn left and walk 100 metres then turn right and walk 100 metres. My house is the white one.

Which house is Freya's?



31) Sara wrote down three different numbers less than 10. The sum of these numbers was 23.
What was the difference between the largest number and the smallest number?

(A) 3
(B) 4
(C) 5
(D) 6

32) Ravi takes 4 paces for every 5 of Isha's paces.
Ali takes 3 paces for every 4 of Isha's paces.
Ravi measures the length of the path with 16 paces.
How many paces will Ali take to measure the same path?

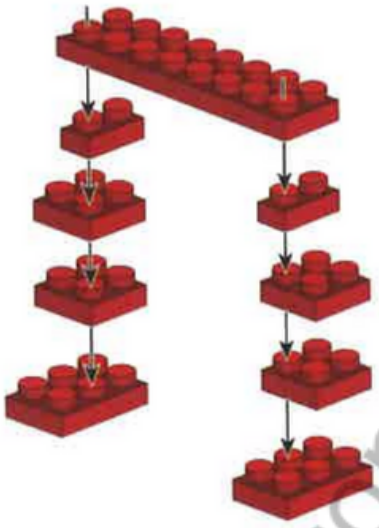
(A) 12
(B) 15
(C) 17
(D) 20

33) Lin calculated 89 - 45 + 76.

Which of these will give the same answer?

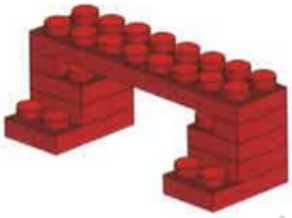
(A) 89 - 76 + 45
(B) 89 - 46 + 75
(C) 86 - 48 + 76
(D) 86 - 45 + 79

34) These are the instructions for building an object out of blocks.



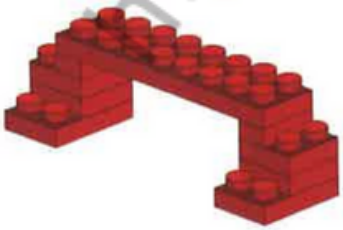
What will the object look like when built correctly?

(A)

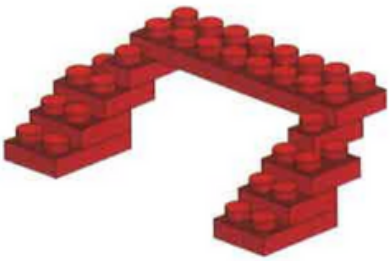


(B)

(C)



(D)



35) Jan competes in a running event on the second Friday of each month.
Jan has a running event on Friday 12th April
What is the date of Jan's running event in May that same year?

(A) 3rd May
(B) 8th May
(C) 9th May
(D) 10th May

36) There are 24 students in Mr Sim's class.
Four students play two sports. All other students play only one sport.
Mr Sim is making a table to show the number of students who play each sport.

Sport	Number
Tennis	
Soccer	8
Volleyball	5
Basketball	?

One-quarter of the students play tennis.
How many students in Mr Sim's class play basketball?

(A) 9
(B) 8
(C) 6
(D) 5

37)

▲ ☆
☆ 7
\+ 1 ▲
1 0 ☆

(A) ▲ = 2 ☆ = 6
(B) ▲ = 3 ☆ = 6
(C) ▲ = 3 ☆ = 5
(D) ▲ = 4 ☆ = 5

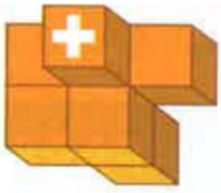
38) Sharon made this solid from seven cubes.

Keeping the cube marked with the white symbol facing her, she rotated the solid clockwise by a quarter of a turn. Which diagram shows the result?

(A)

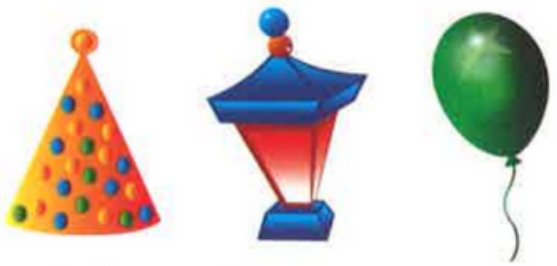
(B)

(C)



(D)

39) James bought 60 items for his party.



One-third of the items were hats.
James bought ten more balloons than lanterns.
How much did James spend altogether?

(A) $150
(B) $140
(C) $130
(D) $120

40) Tao, Jin and Lien swam laps in a pool.
Tao started swimming at 3:00 pm.
Jin started swimming at 3:20 pm.
Lien started swimming at 3:25 pm.
They all swam 2 laps per minute and stopped swimming at the same time.
Altogether they swam 240 laps
At what time did they stop swimming?

(A) 3:40 pm
(B) 3:55 pm
(C) 4:05 pm
(D) 4:15 pm

NAPLAN

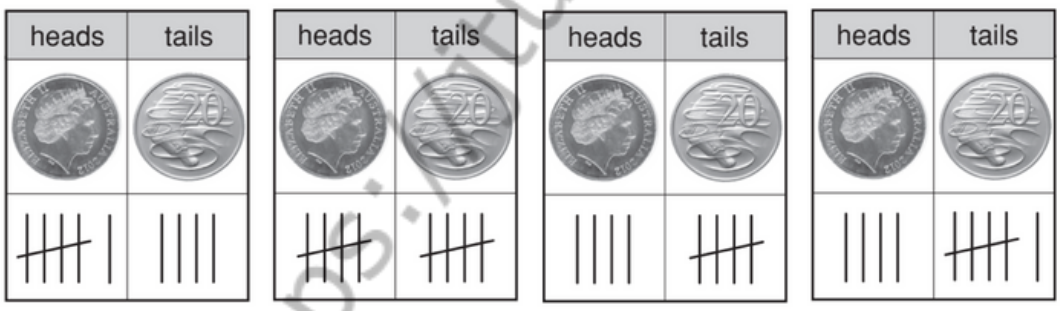
1) Jack is counting up by threes.

2, 5, 8, 11, ?

What number should Jack say next?

(A) 12
(B) 13
(C) 14
(D) 15

2) Mitch tossed a coin 10 times.
He got 4 heads and 6 tails.
Which of these correctly shows Mitch's tally?



(A) (B) (C) (D)

3) There are 70 cats, 105 dogs, and 20 rabbits at a pet show. What is the total number of animals at the show?

(A) 175
(B) 185
(C) 190
(D) 195

4) Which clock shows half past 10?

(A) (B) (C) (D) (E)

5) Dan has $4 more than Lucy. Which row in this table shows how much money Dan and Lucy could have?

	Dan	Lucy
(A)	$10	$40
(B)	$16	$20
(C)	$8	$2
(D)	$18	$14

6) Ben has started to make a model of a cube using toothpicks and clay.

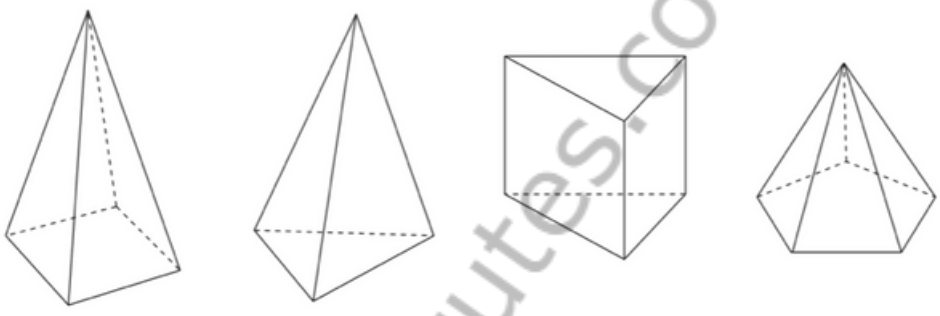
How many **more** toothpicks does Ben need to finish the model?

(A) 2
(B) 3
(C) 4
(D) 6
(E) 9

7) Sue needs to buy 16 hats for a party.
The hats are sold in packets of 5.
How many packets does she need to buy?

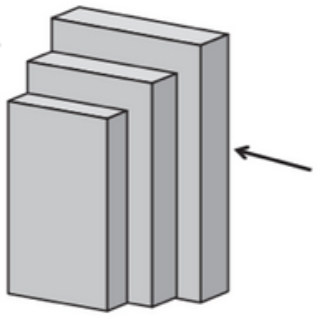
(A) 3
(B) 4
(C) 21
(D) 80

8) Which object is **not** a pyramid?

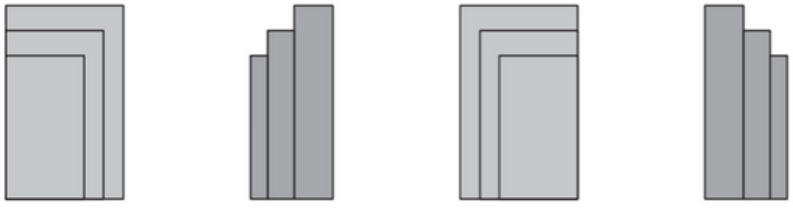


(A) (B) (C) (D)

9) Claire is looking at some boxes in the direction shown by the arrow.



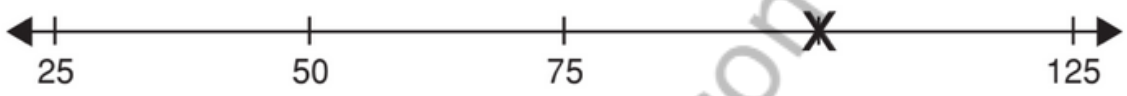
What does she see?



(A) (B) (C) (D)

10) In which one of these numbers does the numeral 5 represent 5 hundreds?

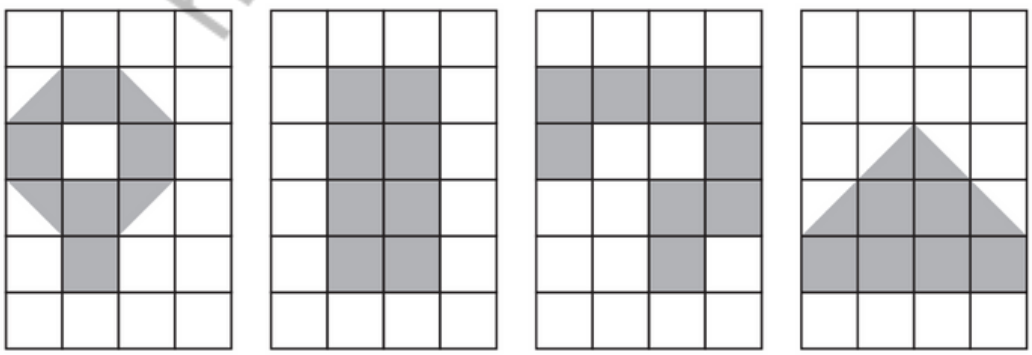
(A) 5003
(B) 605
(C) 150
(D) 3582

11) 

What number is marked with **X** on this number line?

(A) 90
(B) 95
(C) 100
(D) 105

12) Kate shaded these 4 shapes on grid paper.
Which shape has the **least** shading?



(A) (B) (C) (D)

13) Zak has $79.

How much more money does he need to buy the bike?

(A) $64
(B) $66
(C) $74
(D) $76

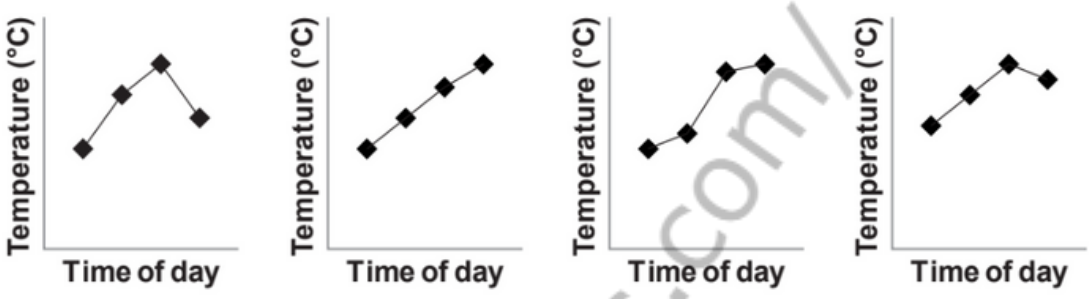
14) Matt and his friends are putting up some tents. Each tent needs 8 pegs. Each peg can only be used for one tent. They have 100 pegs. What is the maximum number of tents they can put up?

(A) 4
(B) 8
(C) 12
(D) 13

15) On Monday Kai measured the temperature every 2 hours from 9:00 am to 3:00 pm.

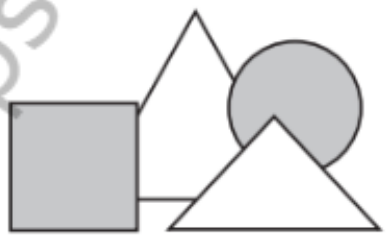
Time of day	9:00 am	11:00 am	1:00 pm	3:00 pm
Temperature (°C)	13	20	24	17

Which graph shows Kai's results?

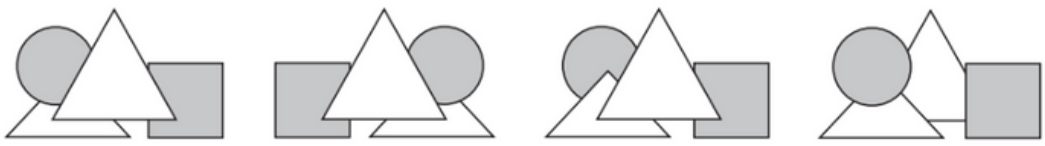


(A) (B) (C) (D)

16) Liam sticks 2 triangles, a circle and a square on his bedroom window. They look like this from the inside of his room.



What do they look like from the outside?



(A) (B) (C) (D)

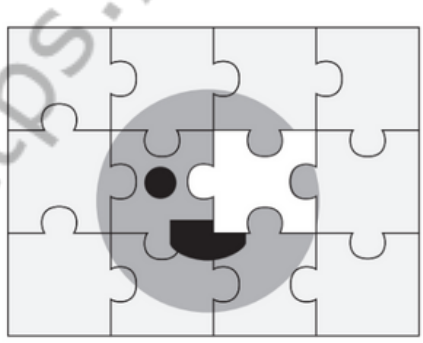
17)

November						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Luke's birthday is 4 November.
Ella's birthday is 6 days before Luke's birthday.
On which day of the week is Ella's birthday?

(A) Sunday
(B) Monday
(C) Tuesday
(D) Wednesday
(E) Thursday

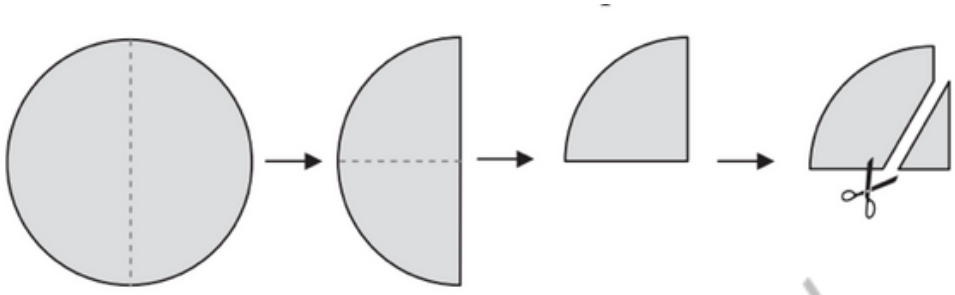
18) Bella needs one more piece to complete the face on this puzzle.



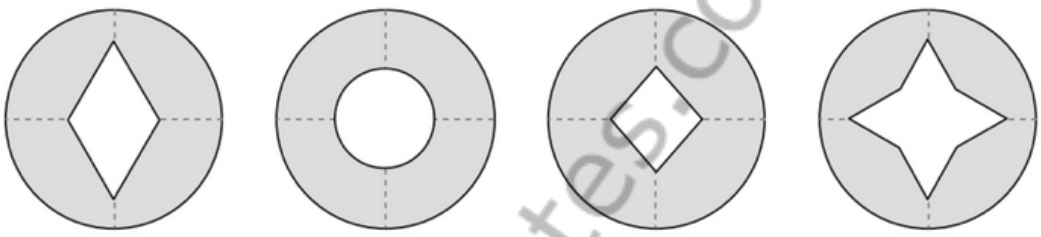
Which of these is the correct piece?

(A) (B) (C) (D)

19) Mike had a circular piece of paper.
He folded it in half twice and cut a piece out as shown.



How will the piece of paper look when he unfolds it?



(A) (B) (C) (D)

20) Ted uses sticks to make a pattern.
He stats with 2 sticks for Stage 1.

Stage 1	Stage 2	Stage 3	Stage 4
			
2 sticks	6 sticks	12 sticks	20 sticks

How many sticks does Ted need for Stage 6?

(A) 24
(B) 26
(C) 30
(D) 42

21) Grace poured half a litre of milk into a jug.
How many millilitres did she pour into the jug?

(A) 50
(B) 250
(C) 500
(D) 2000
(E) 5000

22) Tim has this picture on his computer.

He makes the picture twice as high and half as wide. How will the picture look after he deos that?


(A)


(B)


(C)

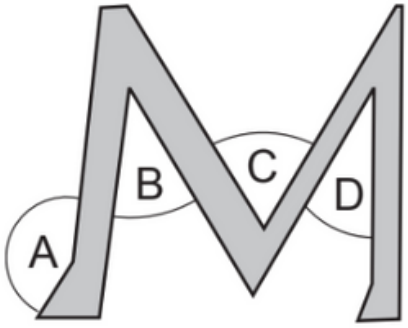

(D)

23) Jen put one shape on top of another shape to make this star.

Which two shapes could Jen have used?

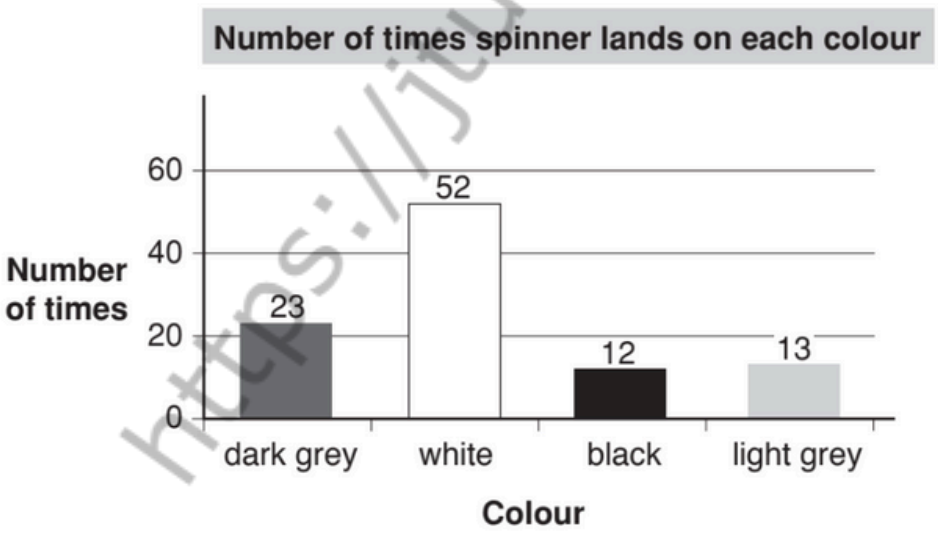

(A) (B) (C) (D)

24) Which one of these is the largest scale?

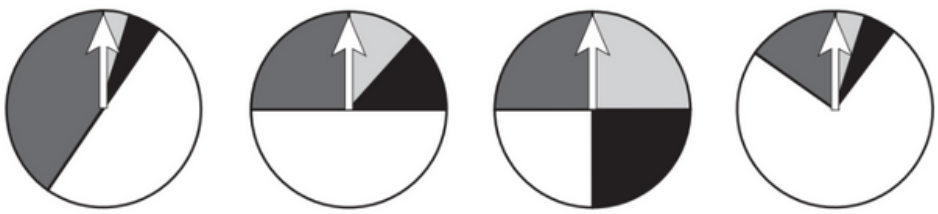


(A) A
(B) B
(C) C
(D) D

25) This graph shows the results of 100 spins of a spinner.

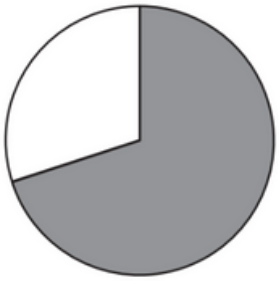


Which of these spinners is most likely to give the results shown in the graph?



(A) (B) (C) (D)

26) Lily shaded part of the area of a circle.

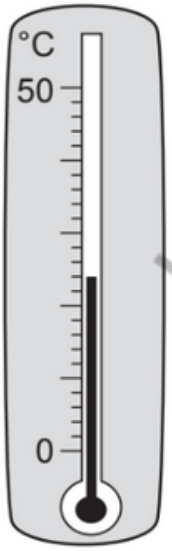


Which of these is closet to the fraction of the area of the circle that Lily shaded?

$\frac{1}{2}$	$\frac{2}{5}$	$\frac{3}{8}$	$\frac{7}{10}$
(A)	(B)	(C)	(D)

27) $200 \div$ ☐ $= 40$

28) What is the temperature reading on this thermometer?



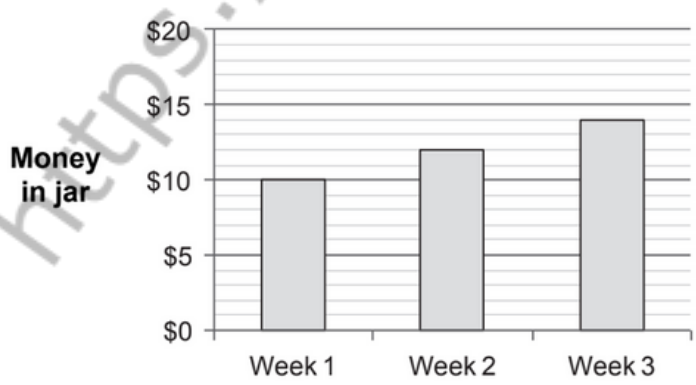
(A) $12^{\circ}C$
(B) $14^{\circ}C$
(C) $22^{\circ}C$
(D) $24^{\circ}C$

29) Oliver has these cards.

Here are two ways he can arrange all the cards so that two numbers are added to make a total.

What is the largest total Oliver can make using all the cards?

30) Anna adds money to a jar each week.
The graph shows how much money is in the jar at the end of each week.



How much money did Anna add to the jar in Week 3?

(A) $2
(B) $4
(C) $5
(D) $12
(E) $14

31) Harry used 400 grams of flour to make 24 cupcakes. How many grams of flour will Harry need to make 36 cupcakes?

grams

32) Which of these has the same value as 4.32?

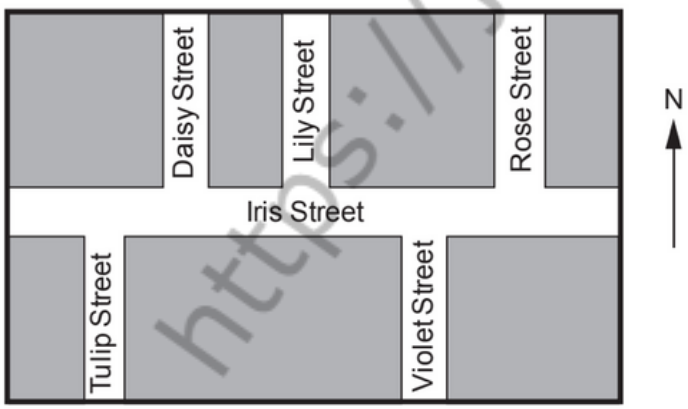
(A) $400 + 30 + 2$

(B) $400 + \frac{32}{100}$

(C) $4 + \frac{3}{100} + \frac{2}{10}$

(D) $4 + \frac{3}{10} + \frac{2}{100}$

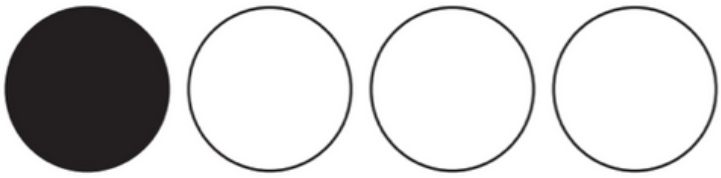
33)



Levi walked south along Lily Street and then turned right on to Iris Street. What was the first street he passed on his left?

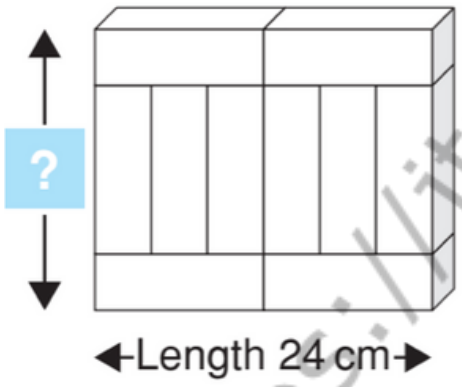
(A) Tulip Street
(B) Daisy Street
(C) Violet Street
(D) Rose Street

34) In a game, each black counter is worth double the points of each white counter.



How many points is each black counter worth?

35) Meg has blocks with two square faces. She makes this model.



What is the height of the model in centimetres?

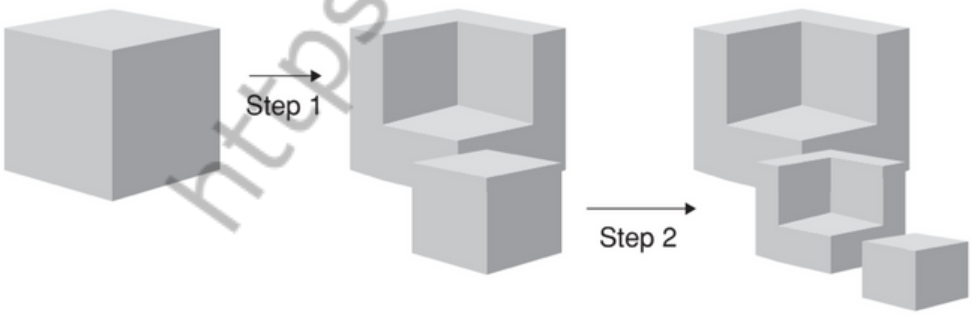
centimetres

36) $\square - 38 + 16 = 34$

37) Last year, Emma's time in the fun run was 26 minutes and 4 seconds. Her time was shown like this:

This year, Emma's time is 2 minutes and 20 seconds faster than last year. What is Emma's time this year?

38) This drawing shows how a 3-piece sculpture is made from a large cube.
Step 1: A medium cube is cut from a large cube.
Step 2: A small cube is cut from the medium cube.



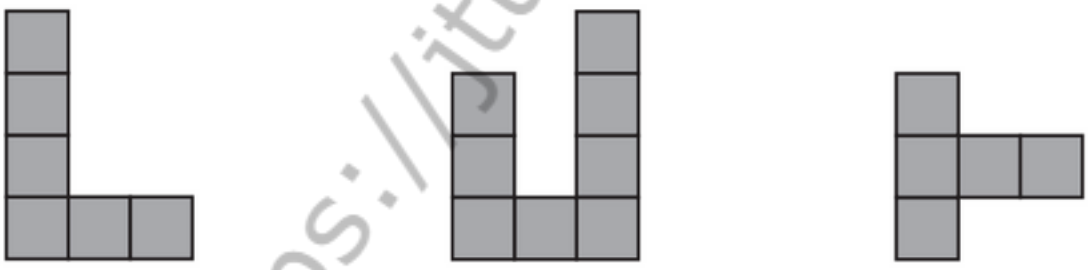
What is the total number of faces of the three pieces after Step 2, including the bases?

faces

39) Nadia measured the height of two walls in her garden. One wall was 3.14 metres high. The other wall was 1.25 metres high. What was the difference in **centimetres** between the two heights?

centimetres

40) The pictures show the front, side and top views of an object made of cubes.



front view left side view top view

How many cubes are needed to make the object?

Practice Questions

1) How many apples are shown?

(A) 3
(B) 4
(C) 5
(D) 6

2) Write a number in the box to make this number sentence correct.

$6 + 4 =$ ☐