



NANYANG PRIMARY SCHOOL

**END-OF-YEAR EXAMINATION  
2023**

**PRIMARY 5**

**MATHEMATICS  
PAPER 1  
(BOOKLET A)**

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

**INSTRUCTIONS TO PUPILS**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.
5. The use of calculators is NOT allowed.

Name: \_\_\_\_\_ (      )

Class: Primary 5 (      )

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.  
For each question, four options are given. One of them is the correct answer.  
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer  
Sheet. (20 marks)

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1 In 5.687, which digit is in the hundredths place?

- (1) 5
- (2) 6
- (3) 7
- (4) 8

2 Which of the following is the same as 23 kg 52 g?

- (1) 23.025 kg
- (2) 23.052 kg
- (3) 23.502 kg
- (4) 23.520 kg

3 Ming Xuan bought 42 oranges, 28 mangoes and 14 kiwis from a fruit store. What was the ratio of the number of oranges to the number of mangoes to the number of kiwis that he bought? Express your answer in its simplest form.

(1)  $2 : 3 : 1$

(2)  $2 : 4 : 6$

(3)  $3 : 2 : 1$

(4)  $6 : 4 : 2$

4 A machine seals 120 fishball packets in 60 seconds. At this rate, how many fishball packets can it seal in 30 minutes?

(1) 3600

(2) 360

(3) 60

(4) 40

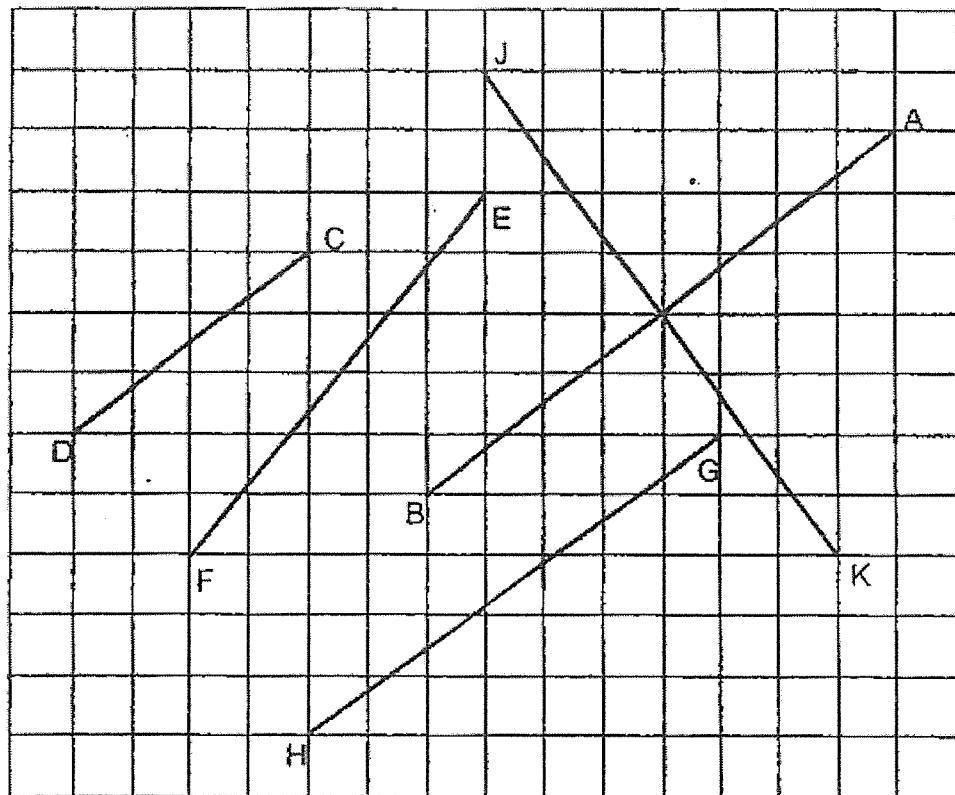
5 Arul had 240 stamps. He gave 60 stamps to his sister. What percentage of his stamps did Arul give to his sister?

- (1) 20%
- (2) 25%
- (3) 75%
- (4) 80%

6 Thomas had \$1200. He spent 35% of his money on food. How much money did he spend on food?

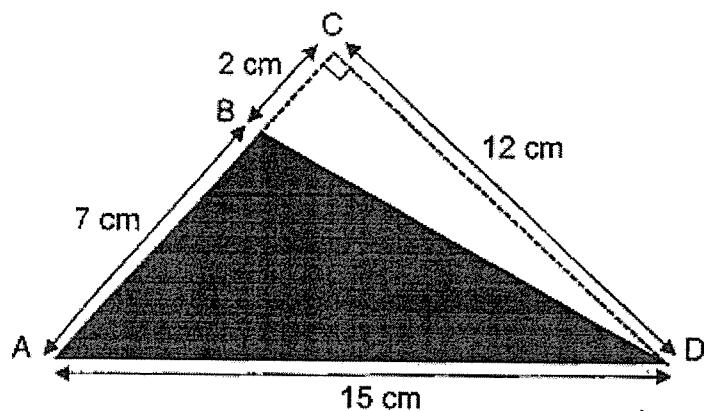
- (1) \$180
- (2) \$360
- (3) \$420
- (4) \$780

7 Identify the line parallel to line AB.



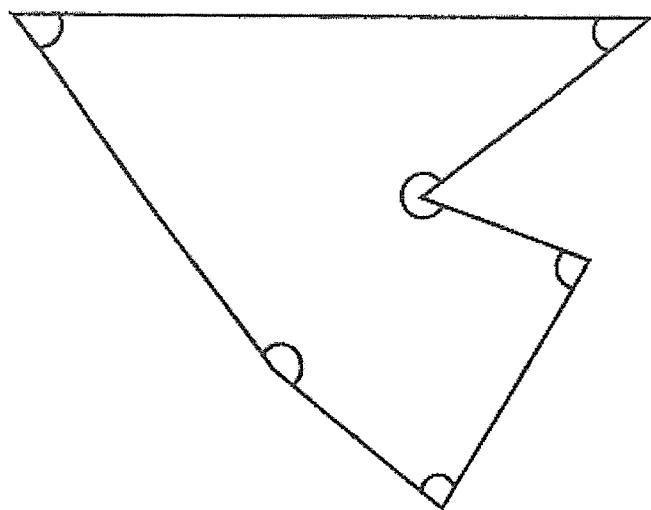
- (1) CD
- (2) EF
- (3) GH
- (4) JK

8 Find the area of the shaded triangle ABD.



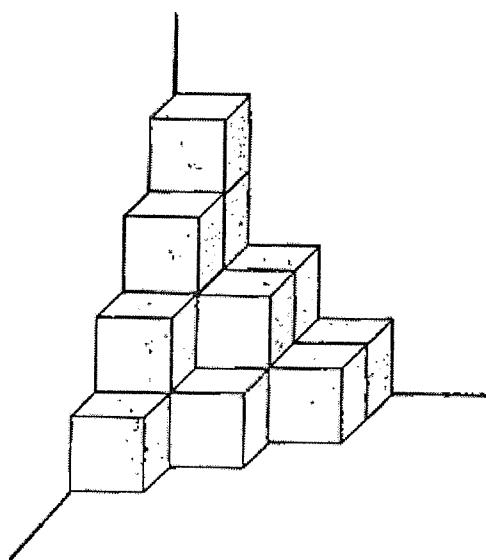
- (1)  $42 \text{ cm}^2$
- (2)  $52.5 \text{ cm}^2$
- (3)  $54 \text{ cm}^2$
- (4)  $84 \text{ cm}^2$

9 In the figure, how many of the six marked angles are more than  $90^\circ$ ?



- (1) 6
- (2) 2
- (3) 3
- (4) 4

10 The figure shows a solid made up of unit cubes. How many unit cubes are needed to make the solid?



- (1) 10
- (2) 12
- (3) 15
- (4) 17

11 Arrange the following fractions from the smallest to the largest.

$$\frac{8}{9}, \frac{3}{7}, \frac{4}{5}$$

	<u>Smallest</u>	<u>Largest</u>
(1)	$\frac{8}{9}, \frac{3}{7}, \frac{4}{5}$	
(2)	$\frac{8}{9}, \frac{4}{5}, \frac{3}{7}$	
(3)	$\frac{3}{7}, \frac{4}{5}, \frac{8}{9}$	
(4)	$\frac{3}{7}, \frac{8}{9}, \frac{4}{5}$	

12 Find the average of the following 5 numbers.

23

23

18

16

0

- (1) 23
- (2) 20
- (3) 18
- (4) 16

13 A factory produces 1505 kg of flour a day. The flour is packed equally into 50 packs. How much does each pack of flour weigh?

- (1) 30.1 kg
- (2) 31 kg
- (3) 300.1 kg
- (4) 301 kg

14 At a funfair, there were 270 people.  $\frac{2}{3}$  of them were children.  $\frac{2}{5}$  of the children were girls and the rest were boys. How many boys were there at the funfair?

- (1) 180
- (2) 162
- (3) 108
- (4) 72

15 A chef cooked some soup for 200 guests. Each guest was served 0.78 l of the soup. How much soup did the chef cook?

- (1) 14.6 l
- (2) 15.6 l
- (3) 146 l
- (4) 156 l





NANYANG PRIMARY SCHOOL

**END-OF-YEAR EXAMINATION  
2023**

**PRIMARY 5**

**MATHEMATICS  
PAPER 1  
(BOOKLET B)**

Total Duration for Booklets A and B: 1 hour

**INSTRUCTIONS TO PUPILS**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of calculators is **NOT** allowed.

Name: \_\_\_\_\_ ( )

Class: Primary 5 ( )

Booklet B

/ 25

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

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16 Find the value of  $198 + 35 \div 7 - (35 + 8 \div 4 \times 2)$

Ans: \_\_\_\_\_

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17 Find the value of  $5 \div 8$ . Give your answer as a decimal.

Ans: \_\_\_\_\_

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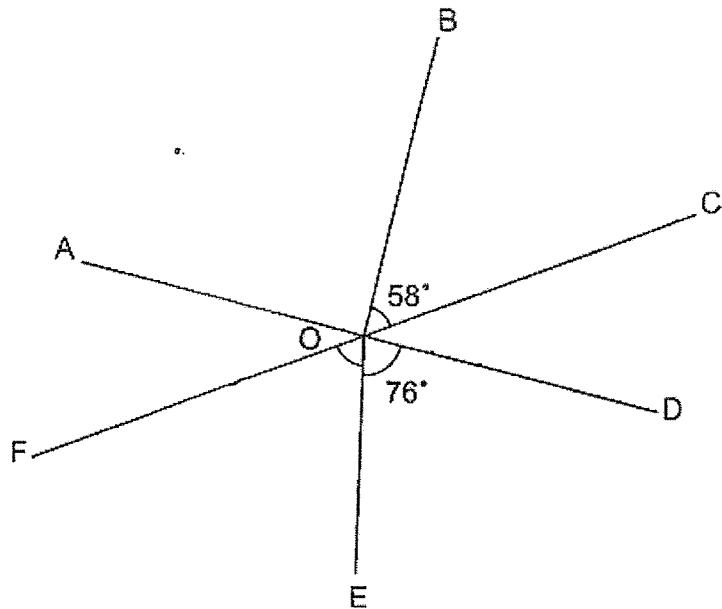
18 What is the missing number in the box?

$$\square : 5 = 24 : 40$$

Ans: \_\_\_\_\_

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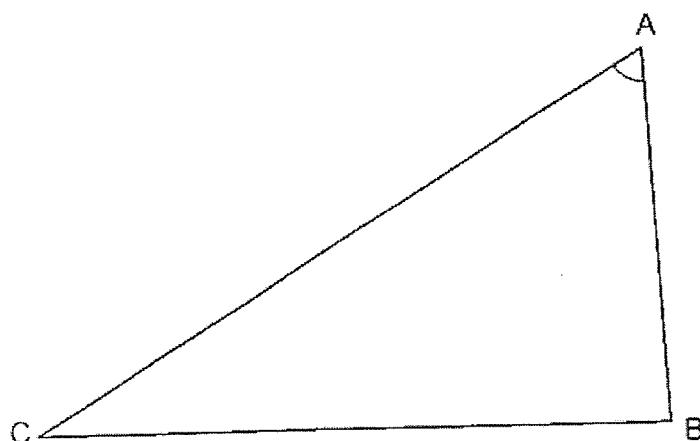
19 In the figure below, AOD and COF are straight lines.  $\angle BOC = 58^\circ$ ,  $\angle DOE = 76^\circ$ ,  $\angle AOB = 90^\circ$ . Find  $\angle FOE$ .



Ans: \_\_\_\_\_

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20 Measure and write down the size of  $\angle BAC$ .



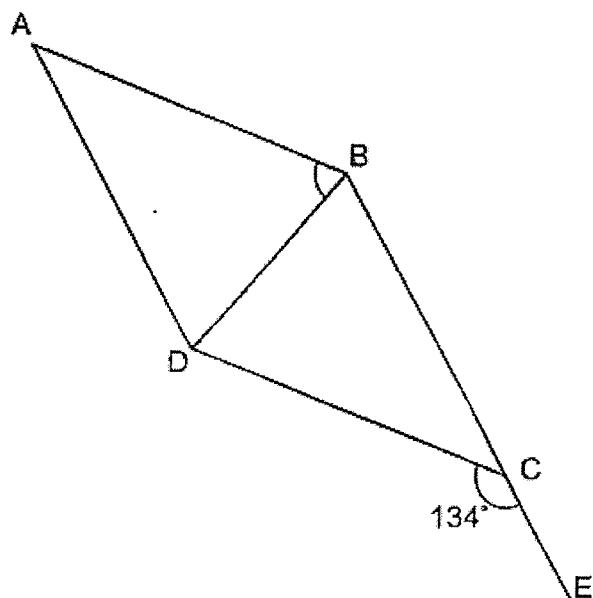
Ans: \_\_\_\_\_

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Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

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21 In the figure below, ABCD is a rhombus. BCE is a straight line and  $\angle DCE = 134^\circ$ . Find  $\angle ABD$ .



Ans: \_\_\_\_\_

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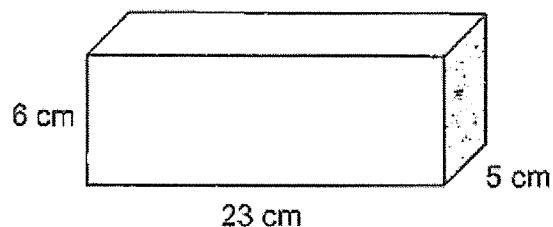
22 Find the value of  $\frac{2}{3} \times \frac{5}{8}$

Give your answer as a fraction in the simplest form.

Ans: \_\_\_\_\_

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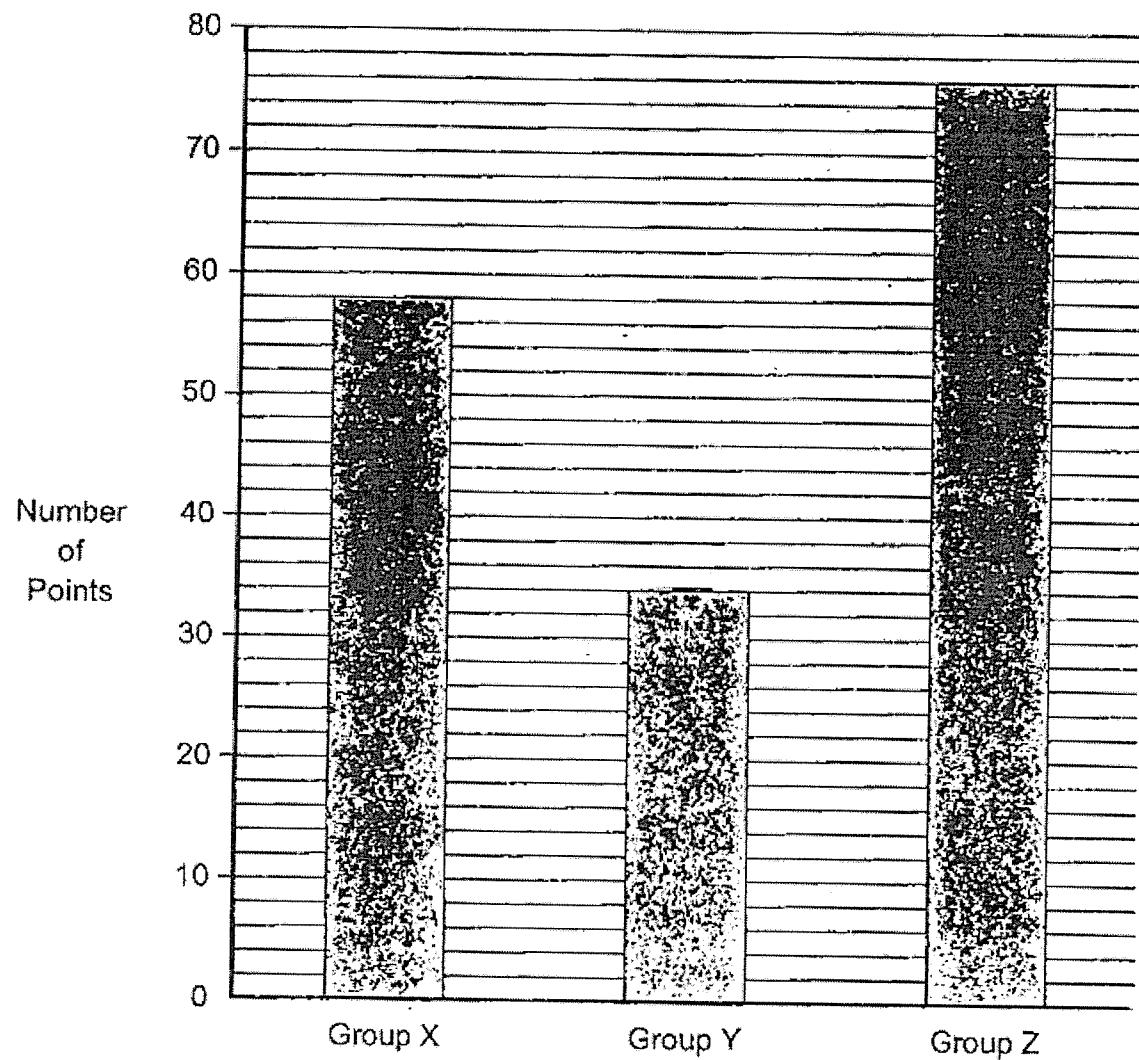
23 What is the volume of the cuboid shown below?



Ans: \_\_\_\_\_  $\text{cm}^3$

---

24 The bar graph shows the group points scored by 3 groups. What is the difference in the group points between the highest score and the lowest score?



Ans: \_\_\_\_\_

25 Sophia paid \$87.40 for 3 identical pencils and 7 identical markers. The price of a marker is \$1.20 more than the price of a pencil. Tim bought 10 such pencils. What was the amount of money he paid for 10 such pencils?

Ans: \$ \_\_\_\_\_

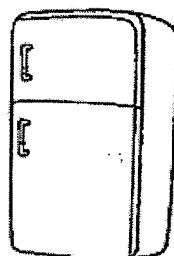
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26 The product of 2 numbers is 3069. The smaller number is 9. Find the larger number. Round the answer to the nearest hundred.

Ans: \_\_\_\_\_

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27 What is the price of the refrigerator after adding 8% GST?

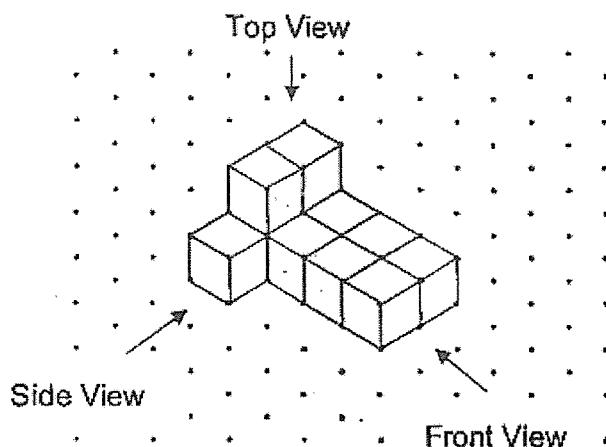


\$2800  
(price before GST)

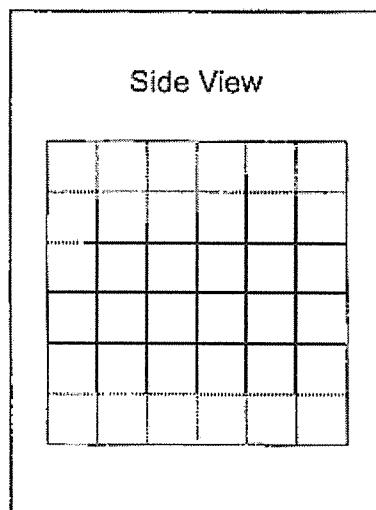
Ans: \$ \_\_\_\_\_

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28 The figure shows a solid made up of 11 unit cubes.



(a) Draw the side view of the solid on the grid below.

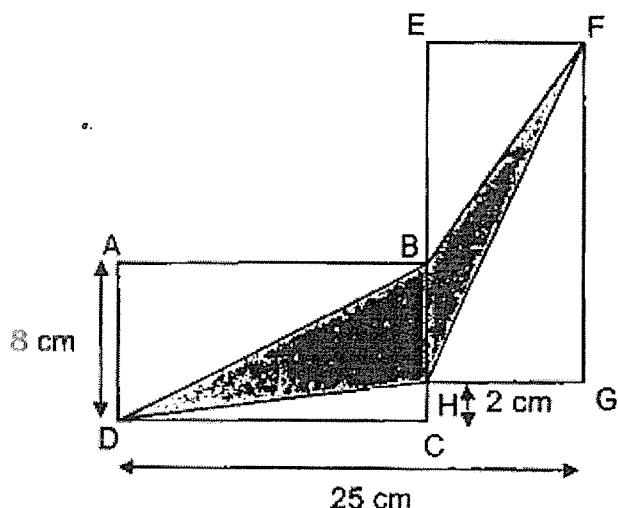


[1]

(b) Jun Wei painted the whole solid, including the base, green. How many of the 11 unit cubes had exactly three of their faces painted green?

Ans: (b) \_\_\_\_\_ [1]

21. ABCD and EFGH are 2 identical rectangles. Find the total area of the unshaded parts.



Ans: \_\_\_\_\_  $\text{cm}^2$

30 The table below shows the height of 3 boys, Abel, Bernard and Carl. Their heights are in whole numbers. They have an average height of 154 cm. Carl is taller than Bernard and Abel is the shortest. Part of the table is smeared with ink. What is the lowest possible height of Carl?

Name	Height (cm)
Abel	16
Bernard	1
Carl	1

Ans: \_\_\_\_\_ cm

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End of Paper





NANYANG PRIMARY SCHOOL

**END-OF-YEAR EXAMINATION  
2023**

**PRIMARY 5**

**MATHEMATICS  
PAPER 2**

**Duration: 1 hour 30 minutes**

**INSTRUCTIONS TO PUPILS**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of an approved calculator is allowed.

Name: \_\_\_\_\_ ( )

Class: Primary 5 ( )

Parent's Signature: \_\_\_\_\_

<b>Booklet A</b>	<b>/ 20</b>
<b>Booklet B</b>	<b>/ 25</b>
<b>Paper 2</b>	<b>/ 55</b>
<b>Total</b>	<b>/ 100</b>

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.



Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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1 Abdul bought  $5\frac{2}{5}$  m of string. He used  $1\frac{3}{4}$  m of it to tie a parcel and  $\frac{4}{10}$  m of it to decorate a present. How many metres of string had he left? Give your answer as a mixed number.

Ans: \_\_\_\_\_ m

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2 A jug contains  $1\frac{7}{9}$  litres of apple juice. How many litres of apple juice are there in 6 such jugs altogether?

Ans: \_\_\_\_\_ l

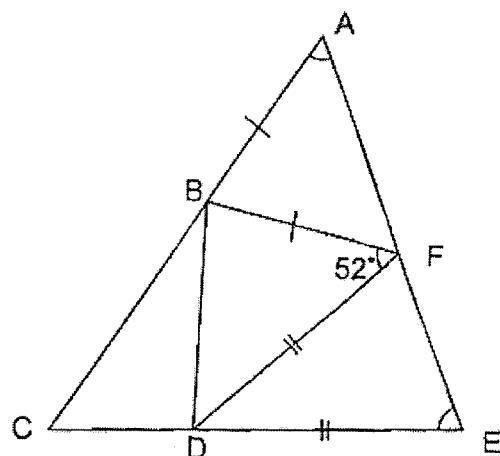
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3 The average mass of 5 children is 48 kg. When Peter's mass is added, the average mass becomes 45 kg. What is Peter's mass?

Ans: \_\_\_\_\_ kg

---

4 ACE is a triangle. Triangle ABF and triangle FDE are isosceles triangles. Find the sum of  $\angle BAF$  and  $\angle FED$ .



Ans: \_\_\_\_\_

---

5 Mei Yan has a piece of yellow ribbon and red ribbon of the same length. She then cuts the piece of yellow ribbon and red ribbon into shorter pieces. If she gives a group of friends a shorter piece of yellow ribbon of length 1.4 m each, she will have 0.6 m of the yellow ribbon left. If she gives the same group of friends a shorter piece of red ribbon of length 1.8 m each, she will need an additional 2.2 m of the red ribbon. How many friends does Mei Yan have in this group?

Ans: \_\_\_\_\_

For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (45 marks)

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6 The total cost of 2 identical files and 3 identical markers was \$15. The total cost of 5 such files and 6 such markers was \$34.80. What was the cost of 1 such marker?

Ans: \_\_\_\_\_ [3]

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7 Team A played against Team B in a badminton match. 560 children watched the badminton match. 70% of the children were boys.

(a) How many girls watched the badminton match?

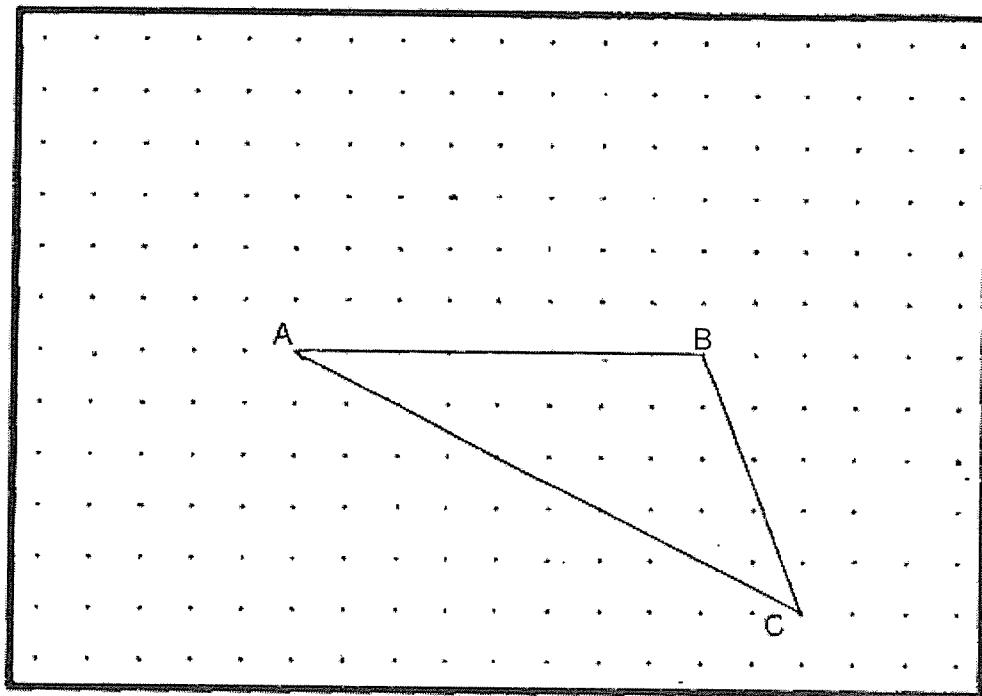
Ans: (a) \_\_\_\_\_ [1]

(b) 42 of the girls supported Team B and the rest of the girls supported Team A. What percentage of the girls supported Team A?

Ans: (b) \_\_\_\_\_ [2]

---

8 A triangle ABC is drawn on a square grid inside a box.



By joining dots on the grid with straight lines,

- (a) draw a rhombus with BC as one of the sides. The rhombus and triangle ABC must not overlap. [1]
- (b) draw parallelogram ACFG. The length of AB is twice the length of AG. Triangle ABC must not overlap with parallelogram ACFG. [2]

9 Jason, Peter and Chris shared a sum of money in the ratio 5 : 9 : 2. The difference between Peter's share and Jason's share is \$128. How much more money did Peter have than Chris?

Ans: \_\_\_\_\_ [3]

30 The average mark for a class of students in a quiz is 74. The top 3 students scored 87, 95 and 100. When the top 3 students were excluded in the calculation for the average, the average mark becomes 62. How many students were there in the class?

Ans: \_\_\_\_\_ [3]

---

11 Ravi baked 2535 cookies.  $\frac{1}{3}$  of them were chocolate cookies,  $\frac{3}{5}$  of the remaining cookies were vanilla cookies and the rest were strawberry cookies.

(a) How many vanilla cookies did he bake?

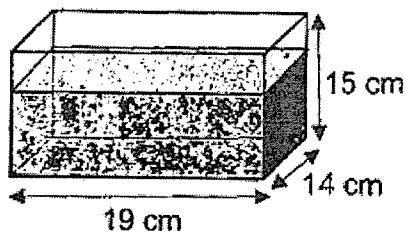
Ans: (a) \_\_\_\_\_ [2]

(b) Ravi packed all the vanilla cookies into large and small tins to sell. He filled each large tin with 30 cookies and each small tin with 12 cookies. All the tins were full and there were no cookies left over. What was the least number of tins used by Ravi?

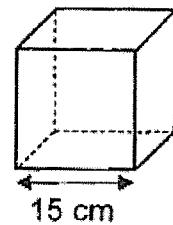
Ans: (b) \_\_\_\_\_ [2]

---

12 A rectangular tank measuring 19 cm by 14 cm by 15 cm is  $\frac{2}{3}$ -filled with water. All the water is then poured into an empty cubical tank with sides measuring 15 cm each.



Rectangular Tank



Cubical Tank

(a) What is the volume of water in the rectangular tank at first?

Ans: (a) \_\_\_\_\_ [1]

(b) How much more water has to be added so that the cubical tank is  $\frac{4}{5}$ -filled with water? Give your answer in litres.

Ans: (b) \_\_\_\_\_ [3]

13 Keryn and Carol had an equal number of stickers at first. After Keryn used 352 stickers and Carol used 84 stickers, Carol had 5 times as many stickers as Keryn.

(a) How many stickers did Keryn have left?

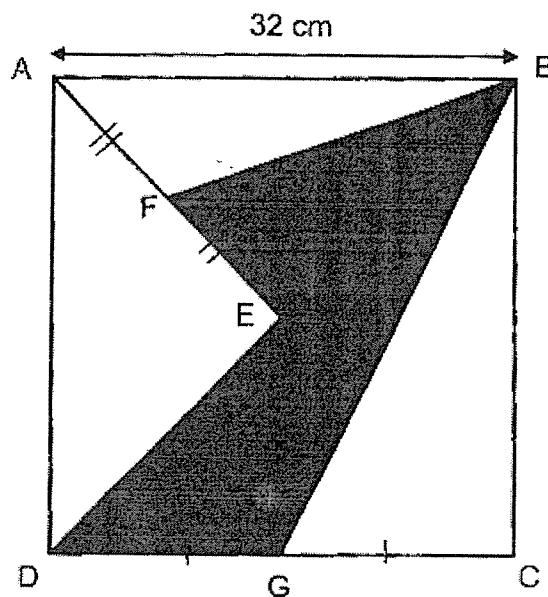
Ans: (a) \_\_\_\_\_ [2]

(b) How many stickers did each girl have at first?

Ans: (b) \_\_\_\_\_ [2]

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14 ABCD is a square.  $AB = 32 \text{ cm}$ ,  $DG = GC$  and  $AF = FE$  and  $DE = EB$ .



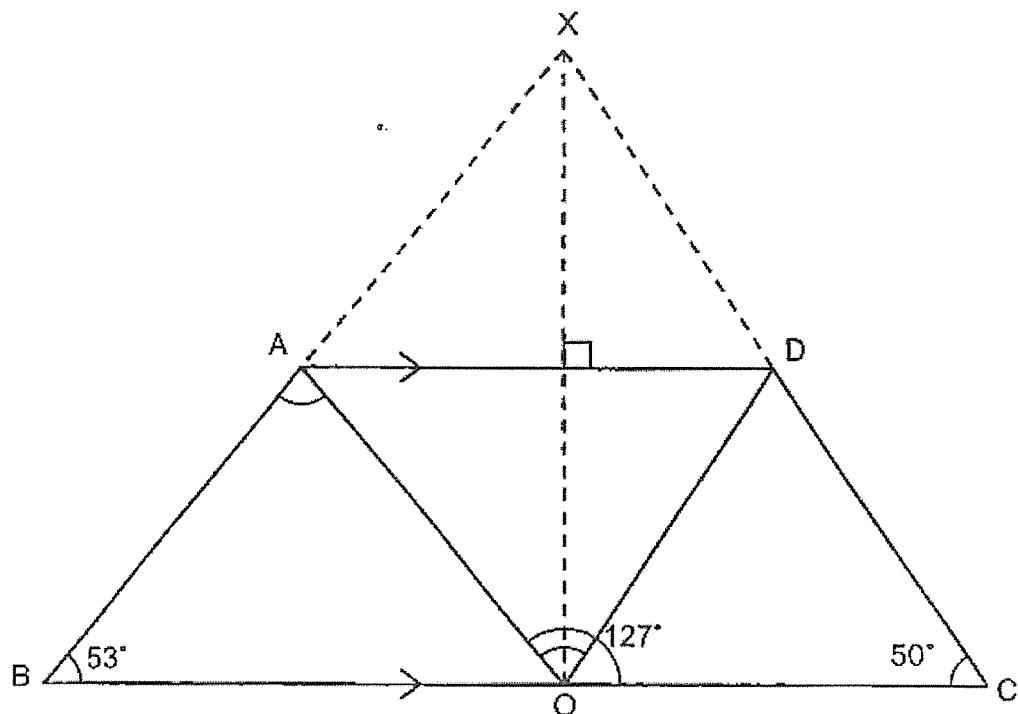
(a) Find the area of the triangle BDG.

Ans: (a) \_\_\_\_\_ [1]

(b) Find the area of the shaded parts.

Ans: (b) \_\_\_\_\_ [3]

15 A piece of triangular paper is folded into a trapezium as shown in the diagram below.  $\angle ABO = 53^\circ$ ,  $\angle DCO = 50^\circ$  and  $\angle AOC = 127^\circ$ .



(a) Find  $\angle AOD$ .

Ans: (a) \_\_\_\_\_ [2]

(b) Find  $\angle BAO$ .

Ans: (b) \_\_\_\_\_ [2]

16 The table shows the parking charges at Value Shopping Mall.

Parking Charges	
9 a.m. to 5 p.m. For the first hour or part thereof	\$1.20
For every additional $\frac{1}{2}$ hour or part thereof	\$1.00
After 5 p.m. till next morning 9 a.m.	\$5.00 per entry

(a) Mrs Wee parked her car from 9.30 a.m. to 11.45 a.m. How much did she pay for her parking charges?

Ans: (a) \_\_\_\_\_ [2]

(b) Mr Ong parked his car from 4.30 p.m. till the next morning 9 a.m. How much did he pay for his parking charges?

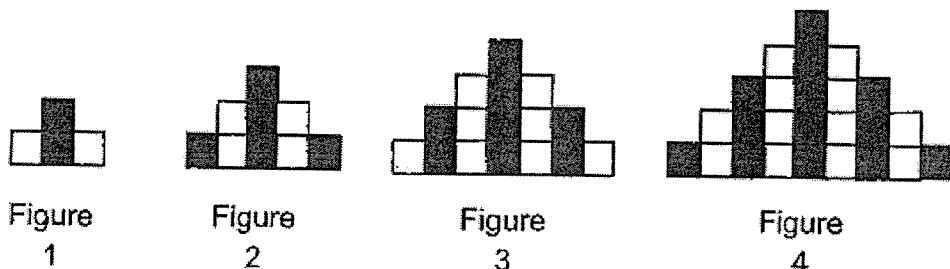
Ans: (b) \_\_\_\_\_ [1]

(c) Each of the statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
Mr Lim paid \$5 when he parked his car from 6 p.m. till next morning 8.45 a.m.			
Mr Tan paid \$1.20 when he parked his car for 30 minutes.			
Some cars entered at 6 p.m. and exited at 6.50 p.m. on the same day. The parking charges for these cars were \$7.20.			

[2]

17 Bryan uses grey and white squares to form figures that follow a pattern as shown below.



(a) The table shows the number of grey and white squares for the first four figures. Complete the table for Figure 5.

Figure Number	1	2	3	4	5
Number of grey squares	2	5	8	13	
Number of white squares	2	4	8	12	
Total number of squares	4	9	16	25	

[1]

(b) Find the number of white squares in Figure 8.

Ans: (b) \_\_\_\_\_ [2]

(c) Find the total number of squares in Figure 49.

Ans: (c) \_\_\_\_\_ [2]

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End of Paper











HAWKING PRIMARY SCHOOL

2023

**PRIMARY 5**  
**MATHEMATICS**  
**PAPER 2**

Candidates should spend about 30 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this paper until you are told to do so.  
2. Follow all instructions carefully.  
3. Answer all questions.  
4. Write your answers in the booklets.  
5. The use of an approved calculator is allowed.

Name: \_\_\_\_\_  
Chinese Name: \_\_\_\_\_  
Parents' Signature: \_\_\_\_\_

Booklet A	120
Booklet B	125
Packet 2	126
Total	1100

Please keep and return the stationery bag the next day. Any stationery should be returned at the same item when returning paper.

6. You have a piece of rope 40m long. If you cut 1/4 m of the rope length, the piece of rope is 39.75m long. If you cut 1/4 m of the rope again, what is the length of the remaining piece of rope?

7. The total cost of 2 identical files and 3 identical notebooks was \$15. The total cost of each file and a notebook was \$9.40. What was the cost of 1 such file?

$$\begin{aligned} 2f + 3n &\rightarrow 30 \\ 2f + 6n &\rightarrow 24 \\ 2f &\rightarrow 6 \\ f &\rightarrow 3 \end{aligned}$$

$$2f + 3n \rightarrow 30$$

$$2f + 3n \rightarrow 24$$

$$3n \rightarrow 6$$

$$n \rightarrow 2$$

$$f + n \rightarrow 5$$

$$f + 2 \rightarrow 5$$

$$f \rightarrow 3$$

$$3 + 2 \rightarrow 5$$

$$3 + 3 \rightarrow 6$$

$$6 + 3 \rightarrow 9$$

$$9 + 6 \rightarrow 15$$

$$15 + 15 \rightarrow 30$$

$$30 + 30 \rightarrow 60$$

$$60 + 60 \rightarrow 120$$

$$120 + 120 \rightarrow 240$$

$$240 + 240 \rightarrow 480$$

$$480 + 480 \rightarrow 960$$

$$960 + 960 \rightarrow 1920$$

$$1920 + 1920 \rightarrow 3840$$

$$3840 + 3840 \rightarrow 7680$$

$$7680 + 7680 \rightarrow 15360$$

$$15360 + 15360 \rightarrow 30720$$

$$30720 + 30720 \rightarrow 61440$$

$$61440 + 61440 \rightarrow 122880$$

$$122880 + 122880 \rightarrow 245760$$

$$245760 + 245760 \rightarrow 491520$$

$$491520 + 491520 \rightarrow 982880$$

$$982880 + 982880 \rightarrow 1965760$$

$$1965760 + 1965760 \rightarrow 3931520$$

$$3931520 + 3931520 \rightarrow 7863040$$

$$7863040 + 7863040 \rightarrow 15726080$$

$$15726080 + 15726080 \rightarrow 31452160$$

$$31452160 + 31452160 \rightarrow 62904320$$

$$62904320 + 62904320 \rightarrow 125808640$$

$$125808640 + 125808640 \rightarrow 251617280$$

$$251617280 + 251617280 \rightarrow 503234560$$

$$503234560 + 503234560 \rightarrow 1006469120$$

$$1006469120 + 1006469120 \rightarrow 2012938240$$

$$2012938240 + 2012938240 \rightarrow 4025876480$$

$$4025876480 + 4025876480 \rightarrow 8051752960$$

$$8051752960 + 8051752960 \rightarrow 16103505920$$

$$16103505920 + 16103505920 \rightarrow 32207011840$$

$$32207011840 + 32207011840 \rightarrow 64414023680$$

$$64414023680 + 64414023680 \rightarrow 128828047360$$

$$128828047360 + 128828047360 \rightarrow 257656094720$$

$$257656094720 + 257656094720 \rightarrow 515312189440$$

$$515312189440 + 515312189440 \rightarrow 1030624378880$$

$$1030624378880 + 1030624378880 \rightarrow 2061248757760$$

$$2061248757760 + 2061248757760 \rightarrow 4122497515520$$

$$4122497515520 + 4122497515520 \rightarrow 8244995031040$$

$$8244995031040 + 8244995031040 \rightarrow 16489990062080$$

$$16489990062080 + 16489990062080 \rightarrow 32979980124160$$

$$32979980124160 + 32979980124160 \rightarrow 65959960248320$$

$$65959960248320 + 65959960248320 \rightarrow 131919920496640$$

$$131919920496640 + 131919920496640 \rightarrow 263839840993280$$

$$263839840993280 + 263839840993280 \rightarrow 527679681986560$$

$$527679681986560 + 527679681986560 \rightarrow 1055359363973120$$

$$1055359363973120 + 1055359363973120 \rightarrow 2110718727946240$$

$$2110718727946240 + 2110718727946240 \rightarrow 4221437455892480$$

$$4221437455892480 + 4221437455892480 \rightarrow 8442874911784960$$

$$8442874911784960 + 8442874911784960 \rightarrow 1688574982356960$$

$$1688574982356960 + 1688574982356960 \rightarrow 3377149964713920$$

$$3377149964713920 + 3377149964713920 \rightarrow 6754299929427840$$

$$6754299929427840 + 6754299929427840 \rightarrow 13508599858855680$$

$$13508599858855680 + 13508599858855680 \rightarrow 27017199717711360$$

$$27017199717711360 + 27017199717711360 \rightarrow 54034399435422720$$

$$54034399435422720 + 54034399435422720 \rightarrow 108068798870845440$$

$$108068798870845440 + 108068798870845440 \rightarrow 216137597741690880$$

$$216137597741690880 + 216137597741690880 \rightarrow 432275195483381760$$

$$432275195483381760 + 432275195483381760 \rightarrow 864550390966763520$$

$$864550390966763520 + 864550390966763520 \rightarrow 1729100781933527040$$

$$1729100781933527040 + 1729100781933527040 \rightarrow 3458201563867054080$$

$$3458201563867054080 + 3458201563867054080 \rightarrow 6916403127734108160$$

$$6916403127734108160 + 6916403127734108160 \rightarrow 13832806255468216320$$

$$13832806255468216320 + 13832806255468216320 \rightarrow 27665612510936432640$$

$$27665612510936432640 + 27665612510936432640 \rightarrow 55331225021872865280$$

$$55331225021872865280 + 55331225021872865280 \rightarrow 110662450043745730560$$

$$110662450043745730560 + 110662450043745730560 \rightarrow 221324900087491461120$$

$$221324900087491461120 + 221324900087491461120 \rightarrow 442649800174982922240$$

$$442649800174982922240 + 442649800174982922240 \rightarrow 885299600349965844480$$

$$885299600349965844480 + 885299600349965844480 \rightarrow 1770599200699931688960$$

$$1770599200699931688960 + 1770599200699931688960 \rightarrow 3541198401399863377920$$

$$3541198401399863377920 + 3541198401399863377920 \rightarrow 7082396802799726755840$$

$$7082396802799726755840 + 7082396802799726755840 \rightarrow 14164793605599453511680$$

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$$453273395379182512373760 + 453273395379182512373760 \rightarrow 906546790758365024747520$$

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$$29009497304267680791920640 + 29009497304267680791920640 \rightarrow 58018994608535361583841280$$

$$58018994608535361583841280 + 58018994608535361583841280 \rightarrow 11603798921707072316768320$$

$$11603798921707072316768320 + 11603798921707072316768320 \rightarrow 23207597843414144633536640$$

$$23207597843414144633536640 + 23207597843414144633536640 \rightarrow 46415195686828289267073280$$

$$46415195686828289267073280 + 46415195686828289267073280 \rightarrow 92830391373656578534146560$$

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$$1188229009582804205237079760 + 1188229009582804205237079760 \rightarrow 2376458019165608410474159520$$

$$2376458019165608410474159520 + 2376458019165608410474159520 \rightarrow 4752916038331216820948319040$$

$$4752916038331216820948319040 + 4752916038331216820948319040 \rightarrow 9505832076662433641896638080$$

$$9505832076662433641896638080 + 9505832076662433641896638080 \rightarrow 1901166415332466728379336160$$

$$19011664153324667283793361$$

5. Jason, Peter and Civila started a sum of money in the ratio 3 : 2. The difference between Peter's share and Jason's share is \$12. How much more did Peter have than Civila?

$$3 : 2 : 1$$

$$4x \rightarrow 4x + 4x - 4 = 8x - 4$$

$$14 - 2x = 7x$$

$$7x = 14 - 4$$

$$7x = 10$$

$$x = \frac{10}{7}$$

$$x = 1.42857$$

$$x = 1.4$$

$$14 - 2x = 7x$$

$$14 = 7x + 2x$$

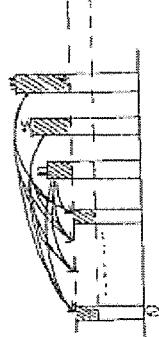
$$14 = 9x$$

$$x = \frac{14}{9}$$

$$x = 1.55555$$

14. Find the area of  $\triangle ABC$  if  $AB = 12$  cm,  $CD = 8$  cm and  $AF = 6$  cm.

$$\text{Ans: } 48 \text{ cm}^2$$



Sum of the 3 parts about slanting  $\rightarrow (14x - 7x) + (14x - 6x) + 12x$

$$+ 12x = 40x$$

$$40x = 14x + 14x + 12x$$

$$40x = 40x$$

$$x = 1$$

15. Jason and Civila had an initial sum of \$100. After 5 days, Jason had 20% more and Civila had 40% more. Civila had 3 times as many as Jason.

(a) How many stickers did Jason have left?

$$K = 14$$

$$C = 14 + 14 = 28$$

$$C = 28 + 28 = 56$$

$$C = 56 + 56 = 112$$

$$C = 112 + 112 = 224$$

$$C = 224 + 224 = 448$$

$$C = 448 + 448 = 896$$

$$C = 896 + 896 = 1792$$

$$C = 1792 + 1792 = 3584$$

$$C = 3584 + 3584 = 7168$$

$$C = 7168 + 7168 = 14336$$

$$C = 14336 + 14336 = 28672$$

$$C = 28672 + 28672 = 57344$$

$$C = 57344 + 57344 = 114688$$

$$C = 114688 + 114688 = 229376$$

$$C = 229376 + 229376 = 458752$$

$$C = 458752 + 458752 = 917504$$

$$C = 917504 + 917504 = 1835008$$

$$C = 1835008 + 1835008 = 3670016$$

$$C = 3670016 + 3670016 = 7340032$$

$$C = 7340032 + 7340032 = 14680064$$

$$C = 14680064 + 14680064 = 29360128$$

$$C = 29360128 + 29360128 = 58720256$$

$$C = 58720256 + 58720256 = 117440512$$

$$C = 117440512 + 117440512 = 234881024$$

$$C = 234881024 + 234881024 = 469762048$$

$$C = 469762048 + 469762048 = 939524096$$

$$C = 939524096 + 939524096 = 1879048192$$

$$C = 1879048192 + 1879048192 = 3758096384$$

$$C = 3758096384 + 3758096384 = 7516192768$$

$$C = 7516192768 + 7516192768 = 15032385536$$

$$C = 15032385536 + 15032385536 = 30064771072$$

$$C = 30064771072 + 30064771072 = 60129542144$$

$$C = 60129542144 + 60129542144 = 120258984288$$

$$C = 120258984288 + 120258984288 = 240517968576$$

$$C = 240517968576 + 240517968576 = 481035937152$$

16. A rectangular tank measuring 10 cm by 14 cm by 15 cm is filled with water. At the same time, water is poured into the tank at a rate of 10 cm<sup>3</sup> per second.

(a) How many seconds does it take to fill the tank?

$$3 : 2 : 9 : 2$$

$$4x \rightarrow 4x + 4x + 4x = 12x$$

$$14 - 2x = 12x$$

$$14 = 14x$$

$$1 = x$$

$$x = 1$$

