Nanyang Primary School
Primary 5
Mathematics
Term 1 Weighted Assessment

Name: _____ ( )

Class: Primary 5 ( )

Marks: /20

Date: _____ Parent's Signature: _____

Duration: 45 minutes

The use of calculators is **NOT** allowed.

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 3 carry 1 marks each. Questions 4 to 5 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 write your answer (1, 2, 3 or 4) in the bracket ( ) provided.

(7 marks)

---

1 What is the value of 312 000 ÷ 400?

(1) 78

(2) 780

(3) 7800

(4) 78 000

( )

2 What is the value of $16 + (39 - 7) \div 4 \times 2$?

(1) 20

(2) 24

(3) 32

(4) 48

( )

3 What is the value of $\frac{2}{7} \times \frac{9}{5}$?

(1) $\frac{11}{35}$

(2) $\frac{18}{35}$

(3) $\frac{53}{35}$

(4) $\frac{73}{35}$

( )

4 Donna had 168 stamps. She gave $\frac{2}{3}$ of her stamps to 7 friends. Each friend received an equal number of stamps. How many stamps did each friend receive?

(1) 8

(2) 16

(3) 24

(4) 112

( )

5 A repeated pattern is formed using numbers 3, 2, 1 and 0. The first 18 numbers are shown below.

3, 0, 2, 0, 1, 3, 0, 2, 0, 1, 3, 0, 2, 0, 1, 3, 0, 2, ...
1st 2nd 3rd *18th*

Find the sum of the first 44 numbers.

(1) 55

(2) 54

(3) 53

(4) 48

( )

Questions **6** to **8** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (3 marks)

6 Write six million, twenty-seven thousand and nineteen in numerals.

Ans: _____

7 8 children shared 5 pizzas equally for lunch. What fraction of a pizza did each child get?

Ans: _____

8 Express $3\frac{2}{5}$ as a decimal.

Ans: _____

Questions **9** to **13** 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)

---

9 Hui En bakes 420 cookies each day. She packs them into tins of 30 cookies. How many tins of cookies will she have in 9 days?

Ans: _____

---

10 On Monday, Mr Yusof bought 4 tables. Each table cost $357. On Tuesday, he bought 6 identical chairs. The 6 chairs cost as much as the 4 tables. How much did each chair cost?

Ans: $ _____

---

11 Find the missing number in the box.

$\frac{6}{7} \times 35 = 3 \times \boxed{?}$

Ans: _____

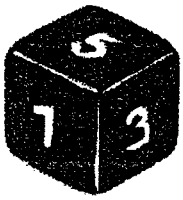
---

12 Prisha had some stickers at first. She gave away $\frac{1}{5}$ of her stickers and bought another 372 stickers. In the end, she was left with 912 stickers. How many stickers did Prisha give away?

Ans: _____

---

13 Peter had a six-sided die. Each side had a number from 1 to 6. He rolled the die three times. Each time, he recorded the number he obtained. The product of the three numbers he obtained was 96. What were the three numbers he obtained?



Ans: _____, _____, _____

End of Paper

Nanyang Primary School
Primary 5
Mathematics
Term 2 Weighted Assessment

Name: _____ ( )

Class: Primary 5 ( )

Marks: /20

Date: _____ Parent's Signature: _____

Duration: 45 minutes

The use of an approved calculator is allowed.

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 **2** 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. (4 marks)

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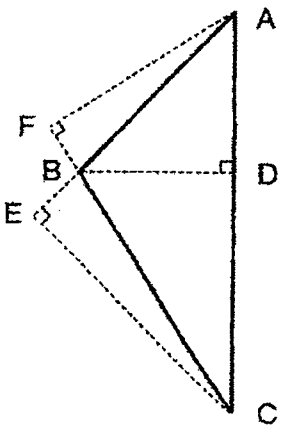
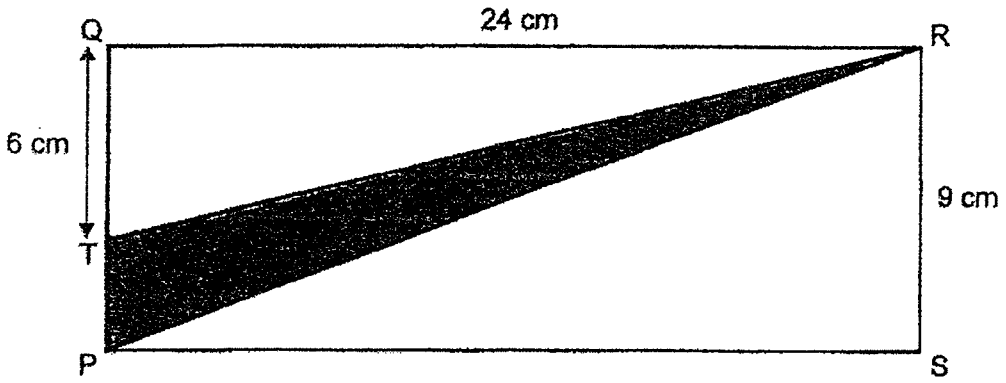
1 In the figure below, ABC is a triangle. FBC and EBA are straight lines. Name the height of triangle ABC given its base is AC.



Ans: _____

---

2 In the figure below, PQRS is a rectangle. T is a point on QP. QR = 24 cm, RS = 9 cm and QT = 6 cm. Find the total area of the unshaded parts.

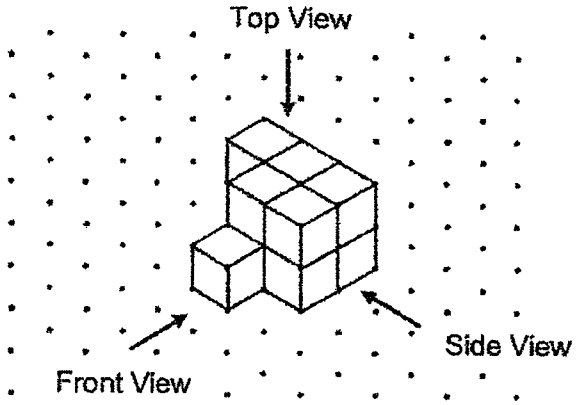


Ans: _____ cm^2

For questions 3 to 6, 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. (16 marks)

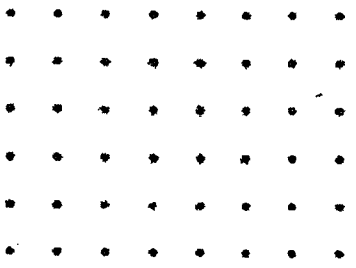
---

3 Ali stacked 11 unit cubes and glued them together to form the solid below.

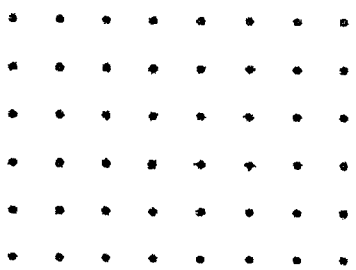


(a) Draw the top view and the side view of the solid on the grids below.

Top View



Side View



[2]

(b) Find the least number of unit cubes Ali can add to the solid to make it into a cuboid.

Ans: (b) _____ [1]

---

4 Siti and Jane each had an equal amount of flour at first. The same amount of flour was used to bake each cake. Siti baked 8 cakes and had 300 g of flour left. Jane baked 3 cakes and had 1.65 kg of flour left.

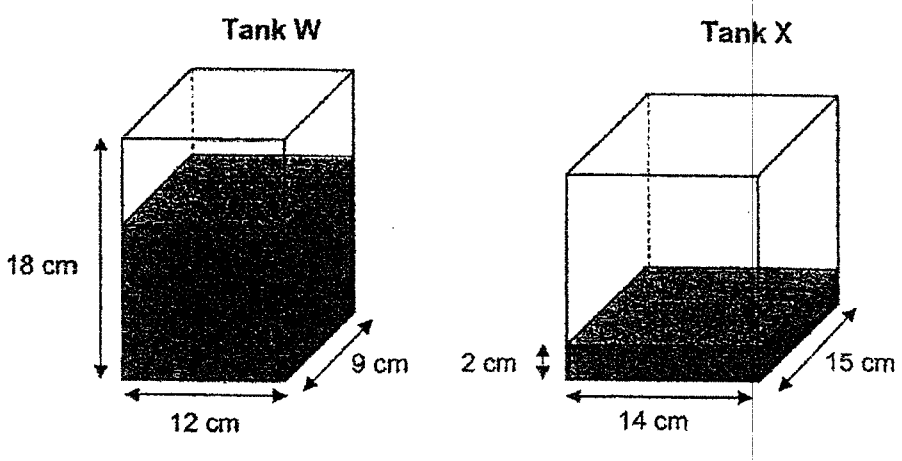
(a) How many kilograms of flour did they have left altogether after baking the cakes?

(b) How much flour did each of them have at first?

Ans: (a) _____ [1]

(b) _____ [3]

5 At first, Tank W was $\frac{2}{3}$-filled with water and Tank X was filled with water to a height of 2 cm as shown below.



(a) What was the volume of water in Tank X at first?

(b) Rizal poured all the water from Tank W into Tank X. What was the volume of water in Tank X in the end?

Ans: (a) _____ [1]

(b) _____ [3]

6 The table below shows the prices of muffins at two shops. The muffins are only sold in sets of 6 muffins in Cassie's Bakery or 7 muffins in Daisy's Bakery.

Shop	Price of muffins
Cassie's Bakery	6 muffins for $15
Daisy's Bakery	7 muffins for $17

(a) Usha has $8.15. She wants to buy 14 muffins from Daisy's Bakery. How much more money does she need to buy the 14 muffins?

(b) Zheng Han has $97. He wants to buy the greatest possible number of muffins with his money from one of the two shops. What is the greatest possible number of muffins he can buy with his money?

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper

Nanyang Primary School
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1 What is the value of 312 000 ÷ 400?

(1) 78
(2) 780
(3) 7800
(4) 78 000

3120 ÷ 4 = 780

(2)

2 What is the value of 16 + (39 − 7) ÷ 4 × 2?

(1) 20
(2) 24
(3) 32
(4) 48

16 + 32 ÷ 4 × 2 = 16 + 8 × 2 = 16 + 16 = 32

(3)

3 What is the value of $\frac{2}{7} \times \frac{9}{5}$?

(1) $\frac{11}{35}$
(2) $\frac{18}{35}$
(3) $\frac{53}{35}$
(4) $\frac{73}{35}$

$\frac{2}{7} \times \frac{9}{5} = \frac{18}{35}$

(2)

4 Donna had 168 stamps. She gave $\frac{2}{3}$ of her stamps to 7 friends. Each friend received an equal number of stamps. How many stamps did each friend receive?

(1) 8
(2) 16
(3) 24
(4) 112

$\frac{168}{1} \times \frac{2}{3} = 112$

112 ÷ 7 = 16

(2)

5 A repeated pattern is formed using numbers 3, 2, 1 and 0. The first 18 numbers are shown below.

3, 0, 2, 0, 1, 3, 0, 2, 0, 1, 3, 0, 2, 0, 1, 3, 0, 2, ...

Find the sum of the first 44 numbers.

(1) 55
(2) 54
(3) 53
(4) 48

3+0+2+0+1 = 6
44 ÷ 5 = 8 R 4
6 × 8 = 48
48 + 3 + 0 + 2 + 0 = 53

(3)

Questions 6 to 8 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (3 marks)

6 Write six million, twenty-seven thousand and nineteen in numerals.

Ans: 6 027 019

7 8 children shared 5 pizzas equally for lunch. What fraction of a pizza did each child get?

5 ÷ 8 = $\frac{5}{8}$

Ans: $\frac{5}{8}$

8 Express $3\frac{2}{5}$ as a decimal.

$3\frac{2}{5} = 3\frac{4}{10} = 3.4$

Ans: 3.4

Questions 9 to 13 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)

9 Hui En bakes 420 cookies each day. She packs them into tins of 30 cookies. How many tins of cookies will she have in 9 days?

420 ÷ 30 = 14
14 × 9 = 126 (ans)

Ans: 126

10 On Monday, Mr Yusof bought 4 tables. Each table cost $357. On Tuesday, he bought 6 identical chairs. The 6 chairs cost as much as the 4 tables. How much did each chair cost?

$357 × 4 = $1428
$1428 ÷ 6 = $238 (ans)

Ans: $ 238

11 Find the missing number in the box.

$\frac{6}{7} \times 35 = 3 \times \boxed{?}$

$= \frac{6}{7} \times \frac{35}{1} = \frac{30}{1} = 30$ (ans)

30 ÷ 3 = 10 (ans)

Ans: 10

12 Prisha had some stickers at first. She gave away $\frac{1}{5}$ of her stickers and bought another 372 stickers. In the end, she was left with 912 stickers. How many stickers did Prisha give away?

912 − 372 = 540 → $\frac{4}{5}$

540 ÷ 4 = 135 → $\frac{1}{5}$

(ans)

Ans: 135

---

13 Peter had a six-sided die. Each side had a number from 1 to 6. He rolled the die three times. Each time, he recorded the number he obtained. The product of the three numbers he obtained was 96. What were the three numbers he obtained?

Rolled the die 3 times → numbers can be repeated

96

1×96

2×48 = 2×8×2

3×32 = 3×4×8

4×24 = 4×4×6 = 4×3×8 → these isn't 8 on the die

6×16 = 6×8×2

Ans: 4, 4, 6

End of Paper

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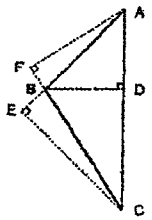
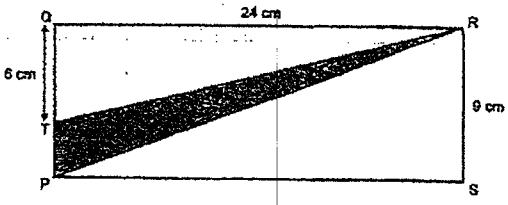
1 In the figure below, ABC is a triangle. FBC and EBA are straight lines. Name the height of triangle ABC given its base is AC.



Ans: BD / DB

1

2 In the figure below, PQRS is a rectangle. T is a point on QP. QR = 24 cm, RS = 9 cm and QT = 6 cm. Find the total area of the unshaded parts.



Area of $\triangle QRT$
$= \frac{1}{2} \times 6\text{cm} \times 24\text{cm}$
$= 72\text{ cm}^2$

Area of $\triangle PRS$
$= \frac{1}{2} \times 9\text{cm} \times 24\text{cm}$
$= 108\text{ cm}^2$

$72\text{ cm}^2 + 108\text{ cm}^2$
$= 180\text{ cm}^2$ (ans)

Base of shaded triangle = 9cm − 6cm
= 3cm

Area of shaded triangle $= \frac{1}{2} \times 3\text{cm} \times 24\text{cm}$
$= \frac{1}{2} \times 72\text{ cm}^2$
$= 36\text{ cm}^2$

Area of rectangle = 24cm × 9cm
= 216 cm²

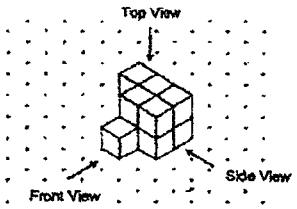
Area of unshaded = 216 cm² − 36 cm²
= 180 cm² (ans)

Ans: 180 cm²

2

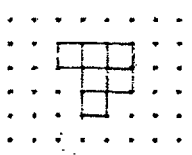
For questions 3 to 6, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (16 marks)

3 All stacked 11 unit cubes and glued them together to form the solid below.

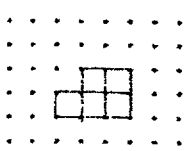


(a) Draw the top view and the side view of the solid on the grids below.

Top View



Side View



[2]

(b) Find the least number of unit cubes Ali can add to the solid to make it into a cuboid.

smallest possible cuboid → 3 × 3 × 2
= 18

18 − 11 = 7 (ans)

Ans: (b) 7 [1]

3

4 Sifi and Jane each had an equal amount of flour at first. The same amount of flour was used to bake each cake. Sifi baked 8 cakes and had 300 g of flour left. Jane baked 3 cakes and had 1.65 kg of flour left.

(a) How many kilograms of flour did they have left altogether after baking the cakes?

(b) How much flour did each of them have at first?

300 g = 0.3 kg

0.3 + 1.65 = 1.95 (ans)

8 − 3 = 5

5 cakes → 1.65 − 0.3
= 1.35

1 cake → 1.35 ÷ 5
= 0.27

3 cakes → 0.27 × 3
= 0.81

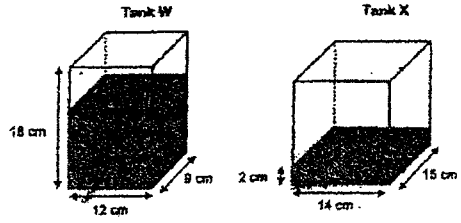
0.81 + 1.65 = 2.46 kg (ans)

Ans: (a) 1.95 kg [1]

(b) 2.46 kg [3]

4

5 At first, Tank W was $\frac{2}{3}$ filled with water and Tank X was filled with water to a height of 2 cm as shown below.



(a) What was the volume of water in Tank X at first?

(b) Rizal poured all the water from Tank W into Tank X. What was the volume of water in Tank X in the end?

Volume of water in X at first → 2cm × 14cm × 15cm
= 420 cm^3 (ans)

Height of water in tank W → $\frac{2}{3}$ × 18cm
= 12cm

Volume in Tank W → 12 × 9 × 12
= 1296

1296 cm^3 + 420 cm^3 = 1716 cm^3 (ans)

Ans: (a) 420 cm^3 [1]

(b) 1716 cm^3 [3]

6 The table below shows the prices of muffins at two shops. The muffins are only sold in sets of 6 muffins in Cassie's Bakery or 7 muffins in Daisy's Bakery.

Shop	Price of muffins
Cassie's Bakery	6 muffins for $15
Daisy's Bakery	7 muffins for $17

(a) Usha has $8.15. She wants to buy 14 muffins from Daisy's Bakery. How much more money does she need to buy the 14 muffins?

(b) Zhang Han has $97. He wants to buy the greatest possible number of muffins with his money from one of the two shops. What is the greatest possible number of muffins he can buy with his money?

14 ÷ 7 = 2

$17 × 2 = $34

$34 − $8.15 = $25.85 (ans)

Cassie

$97 ÷ $15 = 6 R $7

6 × 6 = 36 (ans)

Daisy

$97 ÷ $17 = 5 R $12

5 × 7 = 35

Ans: (a) $25.85 [2]

(b) 36 [3]

End of Paper

END