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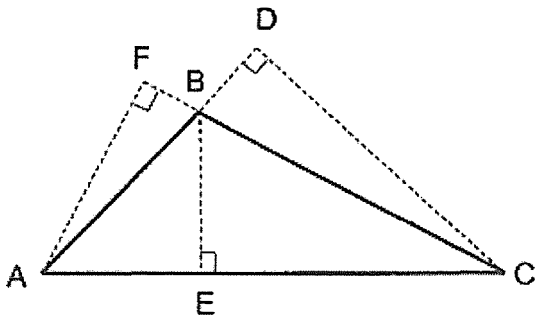
1 In the figure below, ABC is a triangle. FBC and ABD are straight lines. Name the base of triangle ABC given its height is AF.



Ans: _____

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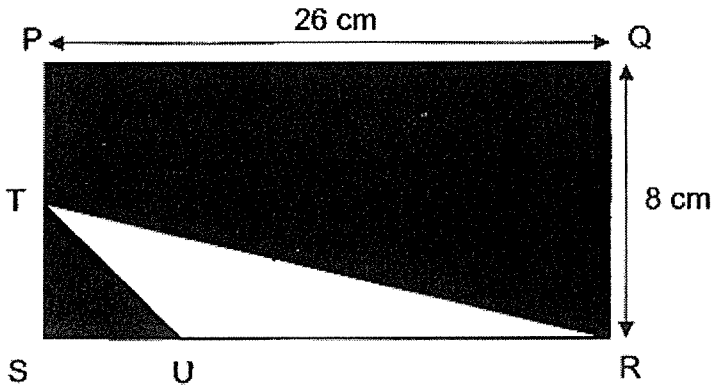
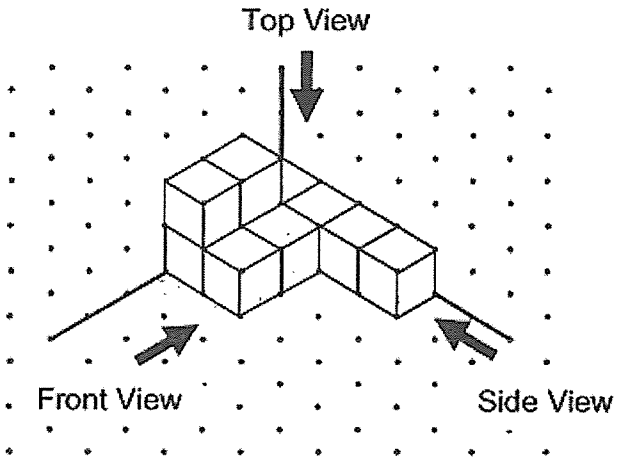
2 In the figure below, PQRS is a rectangle. T is the midpoint of PS. U is a point on SR. TS = SU, PQ = 26 cm and QR = 8 cm. Find the total area of the shaded parts.



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 The figure below shows a solid made up of 1-cm cubes.

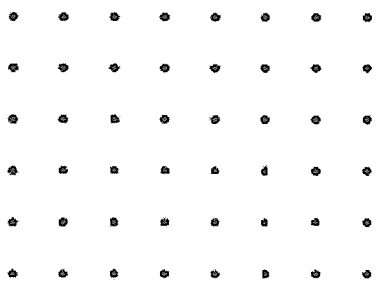


(a) How many more 1-cm cubes does Peter need to add to the solid to make it into a 4-cm cube?

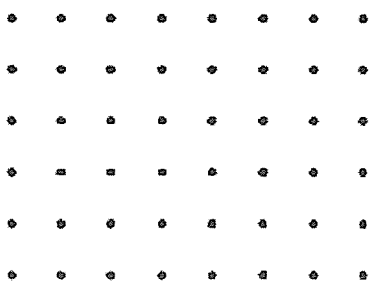
Ans: (a) _____ [1]

(b) Draw the front view and the side view of the solid on the grids below.

Front View

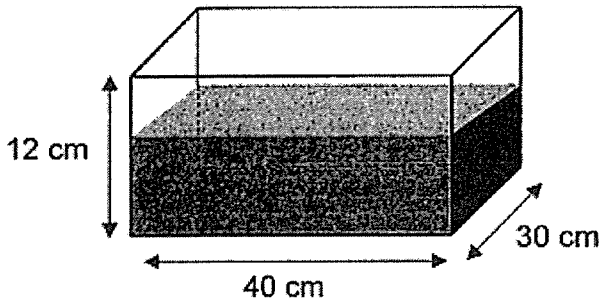


Side View

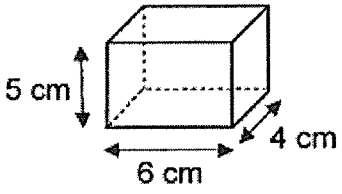


[2]

4 A rectangular tank measuring 40 cm by 30 cm by 12 cm is $\frac{3}{4}$ - filled with water. Rajan poured water from the rectangular tank into identical empty containers to the brim until the rectangular tank became $\frac{1}{3}$ - filled with water. Each container was 6 cm long, 4 cm wide and 5 cm high.



Rectangular tank



Container

(a) What was the volume of water in the rectangular tank when it was completely filled with water?

Ans: (a) _____ [1]

(b) How many such containers were completely filled with water?

Ans: (b) _____ [3]

5 The mass of a box with 40 identical markers is 1640 g.

(a) What is the mass of 40 such markers including the box in kilograms?

Ans: (a) _____ [1]

(b) The mass of the same box when filled with 20 identical pens is 0.83 kg. The mass of one such marker is twice the mass of one such pen. What is the mass of the empty box in kilograms?

Ans: (b) _____ [3]

6 The table shows the prices of muffins and cookies at Marvel Cafe and Simply Cafe.

Item	Marvel Cafe	Simply Cafe
Muffin	$4.00	$3.20
Cookie	$1.60	$2.00

(a) Mrs Lim bought 16 muffins and 20 cookies from Simply Cafe. How much did she pay in all?

Ans: (a) _____ [2]

(b) John bought muffins and cookies from Marvel Cafe. Sally bought muffins and cookies from Simply Cafe. Both John and Sally bought the same number of muffins. John bought 5 cookies and Sally bought 8 cookies. They paid the same amount of money. How many muffins did each of them buy?

Ans: (b) _____ [3]

End of Paper

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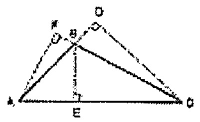
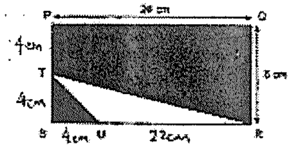
Questions 1 to 2 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (4 marks)

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



Ans: BC

2 In the figure below, PQRS is a rectangle. T is the midpoint of PS. U is a point on SR. TS = SU, PQ = 26 cm and QR = 8 cm. Find the total area of the shaded parts.



UR = 26cm − 4cm
= 22 cm

Area of △ TUR = $\frac{1}{2}$ × 22 cm × 4 cm
= 44 cm²

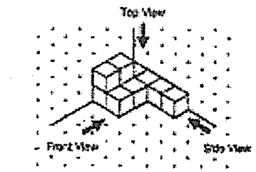
Area of PQRS = 26 cm × 8 cm
= 208 cm²

Area of shaded area = 208 cm² − 44 cm²
= 164 cm²

Ans: 164 cm²

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 The figure below shows a solid made up of 1-cm cubes.

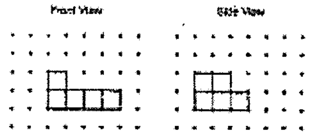


(a) How many more 1-cm cubes does Peter need to add to the solid to make it into a 4-cm cube?

4 × 4 × 4 = 64
64 − 10 = 54

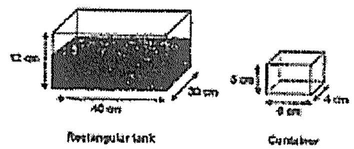
Ans: (a) 54 [1]

(b) Draw the front view and the side view of the solid on the grids below.



[2]

4 A rectangular tank measuring 40 cm by 30 cm by 12 cm is $\frac{3}{4}$-filled with water. Rajan poured water from the rectangular tank into identical empty containers to the brim until the rectangular tank became $\frac{1}{3}$-filled with water. Each container was 6 cm long, 4 cm wide and 5 cm high.



(a) What was the volume of water in the rectangular tank when it was completely filled with water?

40 cm × 30 cm × 12 cm = 14 400 cm³

Ans: (a) 14 400 cm³ [1]

(b) How many such containers were completely filled with water?

$\frac{3}{4} - \frac{1}{3} = \frac{5}{12}$

$\frac{5}{12}$ × 14 400 cm³ = 6000 cm³

6 cm × 4 cm × 5 cm = 120 cm³

6000 cm³ ÷ 120 cm³ = 50

Ans: (b) 50 [2]

5 The mass of a box with 40 identical markers is 1640 g.

(a) What is the mass of 40 such markers including the box in kilograms?

1640 ÷ 1000 = 1.64

Ans: (a) 1.64 kg [1]

(b) The mass of the same box when filled with 20 identical pens is 0.83 kg. The mass of one such marker is twice the mass of one such pen. What is the mass of the empty box in kilograms?

Box	20pens				0.83kg
Box					1.64kg

40markers → 80pens

mass of 1 marker = mass of 2 pens
mass of 40 markers = mass of 80 pens
80 − 20 = 60
mass of 60 pens = 1.64kg − 0.83kg
= 0.81kg
mass of 20 pens = 0.81kg ÷ 3 = 0.27kg
mass of empty box = 0.83kg − 0.27kg
= 0.56kg

Ans: (b) 0.56kg [2]

6 The table shows the prices of muffins and cookies at Marvel Cafe and Simply Cafe.

Item	Marvel Cafe	Simply Cafe
Muffin	$4.00	$3.20
Cookie	$1.60	$2.00

(a) Mrs Lim bought 16 muffins and 20 cookies from Simply Cafe. How much did she pay in all?

16 × $3.20 = $51.20
20 × $2 = $40
$51.20 + $40 = $91.20

Ans: (a) $91.20 [2]

(b) John bought muffins and cookies from Marvel Cafe. Sally bought muffins and cookies from Simply Cafe. Both John and Sally bought the same number of muffins. John bought 5 cookies and Sally bought 8 cookies. They paid the same amount of money. How many muffins did each of them buy?

Money Spent →

John	$8	$0.80×m	$3.20×m
Sally	$16		$3.20×m

Cookies bought by John → 5 × $1.60 = $8
Cookies bought by Sally → 8 × $2.00 = $16
Difference in amount spent on cookies → $16 − $8
= $8
Difference in muffin prices = $4 − $3.20
= $0.80
Number of muffins = $8 ÷ $0.80 = 10

Ans: (b) 10 [3]

End of Paper