Nanyang Primary School
Primary 5
Mathematics
Term 2 Weighted Assessment

Marks: /20

Name: _____ ( )

Class: Primary 5 ( )

Date: _____ Parent's Signature: _____

Duration: 40 minutes

The use of an approved calculator is allowed.

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

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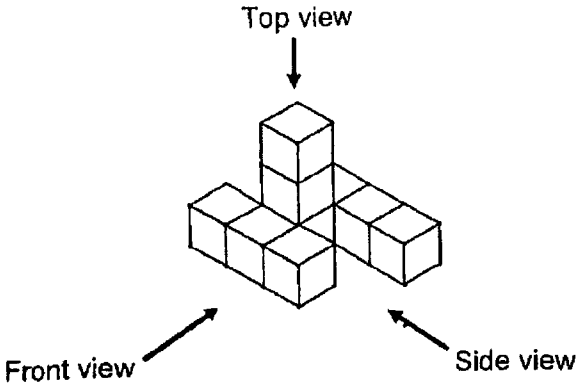
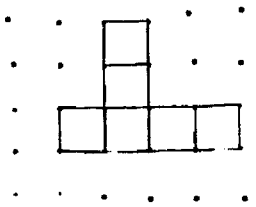
Questions 1 to 2 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (4 marks)

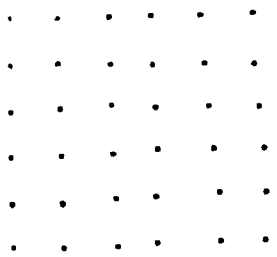
1 (a) Ali builds a solid using 9 unit cubes.





Draw the side view of the solid on the grid below.

Side view



(b) Find the greatest number of unit cubes Ali can add to the solid without changing the front view and side view.

Ans: _____

2 Jack had some marbles at first. He sold $\frac{1}{5}$ of the marbles. He then gave $\frac{5}{8}$ of the remaining marbles to his sister. He had 360 marbles left in the end. How many marbles did he have at first?

Ans: _____

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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)

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3 Anna had $\frac{7}{8}$ kg of flour at first. She used $\frac{3}{7}$ of the flour to bake a cake.

Bob used $\frac{1}{4}$ kg of flour more than Anna. How much flour did Bob use?

Give your answer in kg.

Ans: _____ kg [3]

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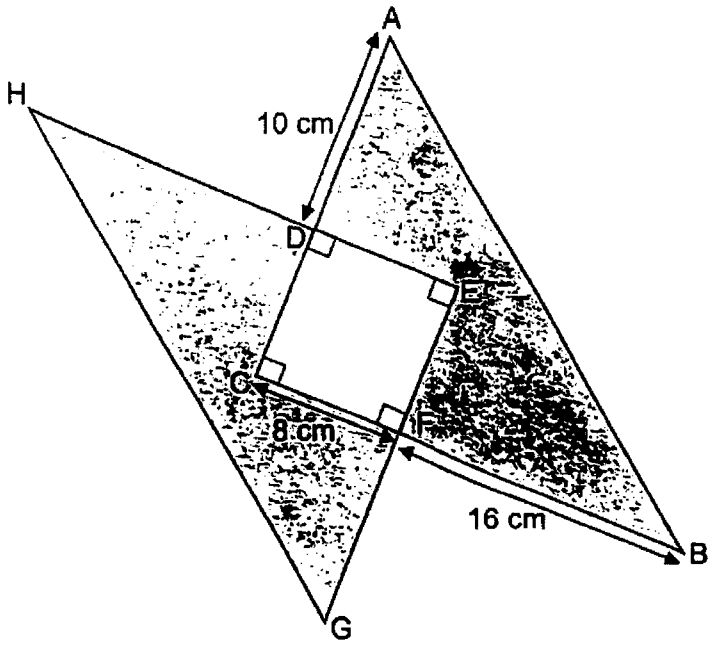
4 The figure below is formed by 2 identical triangles, ABC and GHE. Two such triangles are glued together such that they overlap as shown below. CDEF is a square of side 8 cm.



(a) Find the area of triangle ABC.

Ans: (a) _____ cm^2 [2]

(b) Find the total area of the shaded parts of the figure.

Ans: (b) _____ cm^2 [2]

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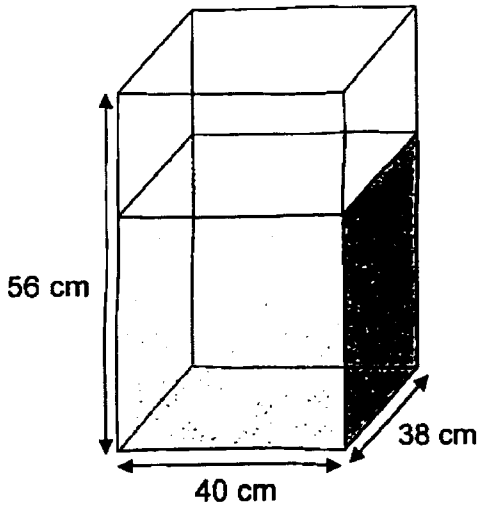
5 The figure below shows a rectangular tank. It was $\frac{5}{7}$ - filled with water at first.



(a) How much water was in the tank at first?

Ans: (a) _____ cm^3 [2]

(b) Syakir poured the water from the tank to completely fill as many empty bottles as possible. The capacity of each bottle was 225 cm^3. How much water was left in the tank in the end?

Ans: (b) _____ cm^3 [2]

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6 At an amusement park, $\frac{1}{3}$ of the visitors were children. $\frac{1}{6}$ of the children were boys and $\frac{1}{4}$ of the adults were men. There were 196 men and boys altogether.

(a) How many visitors were there at the amusement park?

Ans: (a) _____ [3]

(b) After some children went home, there were three times as many adults as children left at the amusement park. How many children went home?

Ans: (b) _____ [2]

End of Paper

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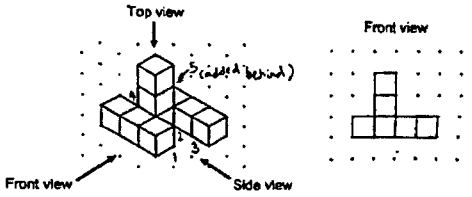
2025 P5 WA2 Worked Solutions

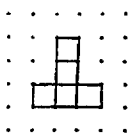
Questions 1 to 2 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (4 marks)

1 (a) Ali builds a solid using 9 unit cubes.



Draw the side view of the solid on the grid below.

Side view

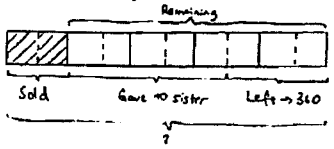


(b) Find the greatest number of unit cubes Ali can add to the solid without changing the front view and side view.

(see diagram for the 5 added cubes)

Ans: 5

2 Jack had some marbles at first. He sold $\frac{1}{5}$ of the marbles. He then gave $\frac{5}{8}$ of the remaining marbles to his sister. He had 360 marbles left in the end. How many marbles did he have at first?



3 units = 360

1 unit = 360 ÷ 3
= 120

10 units = 120 × 10
= 1200 (ans)

Alternative method

$1 - \frac{1}{5} = \frac{4}{5}$ → Fraction of marbles at first remaining

$1 - \frac{5}{8} = \frac{3}{8}$ → Fraction of remaining marbles left

$\frac{3}{8_2} \times \frac{4^1}{5} = \frac{3}{10}$ → Fraction of marbles at first left

$\frac{3}{10}$ of marbles at first → 360

$\frac{1}{10}$ of marbles at first → 360 ÷ 3
= 120

$\frac{10}{10}$ of marbles at first → 120 × 10
= 1200 (ans)

Ans: 1200

For questions 3 to 8, 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)

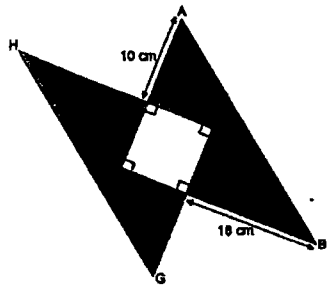
3 Anna had $\frac{7}{8}$ kg of flour at first. She used $\frac{3}{7}$ of the flour to bake a cake. Bob used $\frac{1}{4}$ kg of flour more than Anna. How much flour did Bob use? Give your answer in kg.

Amount of flour Anna used → $\frac{3}{7_1} \times \frac{7^1}{8}$ kg = $\frac{3}{8}$ kg

Amount of flour Bob used → $\frac{3}{8}$ kg + $\frac{1}{4}$ kg = $\frac{5}{8}$ kg (ans)

Ans: $\frac{5}{8}$ kg [3]

4 The figure below is formed by 2 identical triangles, ABC and GHE. Two such triangles are glued together such that they overlap as shown below. CDEF is a square of side 8 cm.



(a) Find the area of triangle ABC.

AC → 10 + 8 = 18

BC → 16 + 8 = 24

Area of ABC → $\frac{1}{2_1} \times 18^9 \times 24$ = 216 (cm²)

Ans: (a) 216 cm² [2]

(b) Find the total area of the shaded parts of the figure.

Area of CDEF → 8 × 8 = 64

Area of ADEFB → 216 − 64 = 152

Area of GFCDH = Area of ADEFB

Thus, area of shaded parts → 152 × 2
= 304 (cm²)

Ans: (b) 304 cm² [2]

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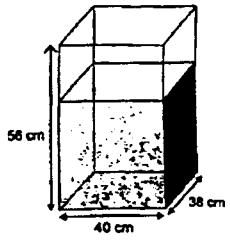
5 The figure below shows a rectangular tank. It was $\frac{5}{7}$ filled with water at first.



(a) How much water was in the tank at first?

$\frac{5}{7} \times 56 \times 40 \times 38 = 60800$ (cm³)

Ans: (a) 60800 cm³ [2]

(b) Syakir poured the water from the tank to completely fill as many empty bottles as possible. The capacity of each bottle was 225 cm³. How much water was left in the tank in the end?

60800 ÷ 225 = 270

270 bottles were filled completely

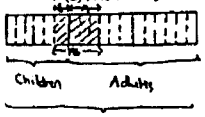
270 × 225 = 60750

60800 − 60750 = 50 (cm³)

Ans: (b) 50 cm³ [2]

6 At an amusement park, $\frac{1}{3}$ of the visitors were children. $\frac{1}{6}$ of the children were boys and $\frac{1}{4}$ of the adults were men. There were 196 men and boys altogether.

(a) How many visitors were there at the amusement park?



$\frac{1}{6} \times \frac{1}{3} = \frac{1}{18}$ → fraction of visitors that were boys

$1 - \frac{1}{3} = \frac{2}{3}$ → fraction of visitors that were adults

$\frac{1}{4} \times \frac{2}{3} = \frac{1}{6}$ → fraction of visitors that were men

$\frac{1}{6} + \frac{1}{18} = \frac{4}{18}$ → fraction of visitors that were boys and men

$\frac{4}{18}$ of visitors → 196

$\frac{1}{18}$ of visitors → 196 ÷ 4 = 49

$\frac{18}{18}$ of visitors → 49 × 18 = 882 (ans)

4 units = 196

1 unit = 196 ÷ 4 = 49

18 units = 49 × 18 = 882 (ans)

Ans: (a) 882 [3]

(b) After some children went home, there were three times as many adults as children left at the amusement park. How many children went home?

Number of adults → $\frac{2}{3} \times 882$

= 588

Number of children in the end → 588 ÷ 3

= 196

Number of children at first → $\frac{1}{2} \times 882$

= 294

294 − 196 = 98 (ans)

Ans: (b) 98 [2]

End of Paper