



RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 2 2010

| | | |
|-----------------------------------|-------|-------|
| Your Score Out of 100 marks | | |
| | Class | Level |
| Highest score | | |
| Average score | | |
| Parent's Signature | | |

Name : _____ () Class: P4__

27 Oct 2010 MATHEMATICS Att: 1 h 45 min

SECTION A (25 marks)

Question 1 to 5 carry 1 mark each. Question 6 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). Shade your answer (1, 2, 3 or 4) on the OAS provided.

1. In which of the following numbers does the digit 5 stand for 500?

(1) 5690

(2) 6905

(3) 7580

(4) 8750

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2. In which of the following are the numbers arranged from the smallest to the greatest?

(1) 5790, 5709, 5079

(2) 5079, 5790, 5709

(3) 5790, 5079, 5709

(4) 5079, 5709, 5790

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3. A square has an area of 36 cm^2 .
Find the length of each side of the square.

(1) 6 cm

(2) 9 cm

(3) 18 cm

(4) 144 cm

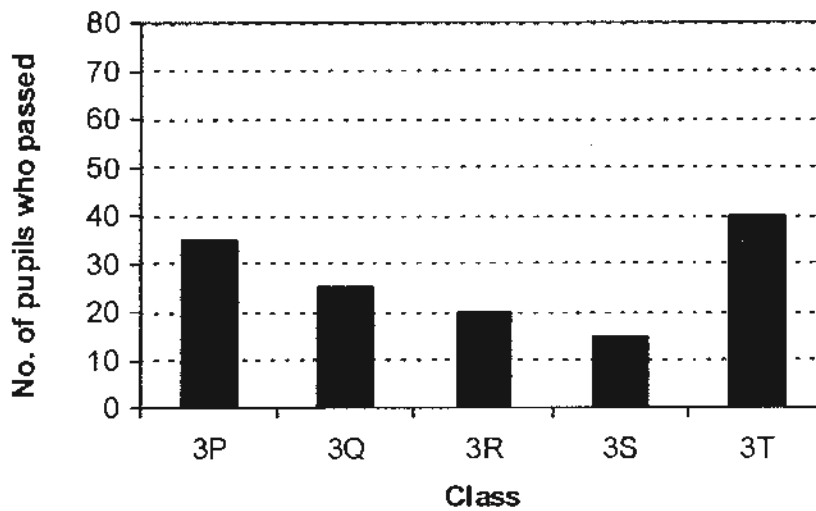
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4. Jane had an appointment with her doctor at 2.20 p.m.
She was 45 minutes late for her appointment.
What time did she arrive at the clinic?

- (1) 1.35 p.m.
- (2) 2.45 p.m.
- (3) 3.05 p.m.
- (4) 3.45 p.m.

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5. The bar graph below shows the number of pupils who passed Mathematics for the final year examination.



Which class has twice as many passes as class 3R?

- (1) 3P
- (2) 3Q
- (3) 3S
- (4) 3T

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6. Jane bought 4 packets of French fries for \$5.20.
How much would 3 packets of French fries cost?

- (1) \$ 1.30
- (2) \$ 3.90
- (3) \$ 6.50
- (4) \$ 9.10

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7. Fill in the box with a suitable number.

$$\frac{\square}{8} = \frac{5}{10}$$

(1) 1

(2) 2

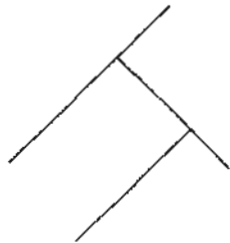
(3) 3

(4) 4

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8. Which of the following figures contains both parallel lines and perpendicular lines?

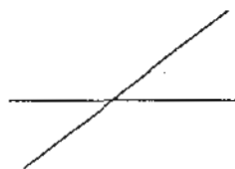
(1)



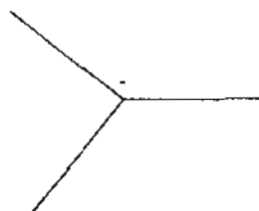
(2)



(3)



(4)



()

9. How many one-thirds are there in 2 wholes?

(1) $1\frac{1}{2}$

(2) $\frac{2}{3}$

(3) 3

(4) 6 ()

10. What is the number when 112.52 is rounded off to 1 decimal place?

(1) 112.0

(2) 112.5

(3) 112.6

(4) 113.0 ()

11. Which of the following are common factors of 18 and 27?

(1) 1 and 6

(2) 2 and 3

(3) 3 and 9

(4) 6 and 9 ()

12. Jane paid \$28.80 for 1 cake and 3 curry puffs.
The cake cost \$25.20. What was the price of 1 curry puff?

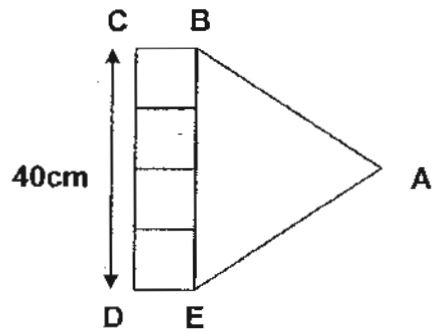
(1) \$ 1.20

(2) \$ 3.60

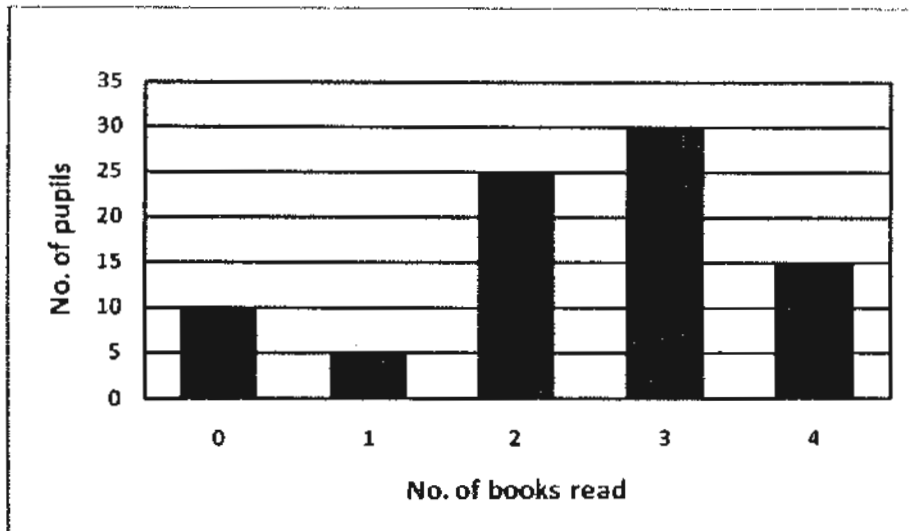
(3) \$ 8.40

(4) \$ 9.60 ()

13. ABCDE below is made up of an equilateral triangle and 4 similar squares. Given that CD is 40cm, what is the perimeter of the figure?

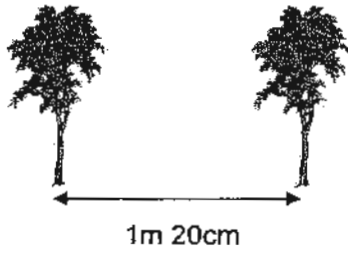


- (1) 100 cm
 (2) 120 cm
 (3) 140 cm
 (4) 180 cm ()
14. The bar graph below shows the number of books that pupils from ABC Nursery read. How many books did they read in all?



- (1) 75
 (2) 85
 (3) 205
 (4) 215 ()

15. Five trees are planted at equal distance of 1m 20 cm from each other. What is the total distance between the first and the last tree?



- (1) 120 cm
- (2) 240 cm
- (3) 480 cm
- (4) 600 cm

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SECTION B (40 marks)

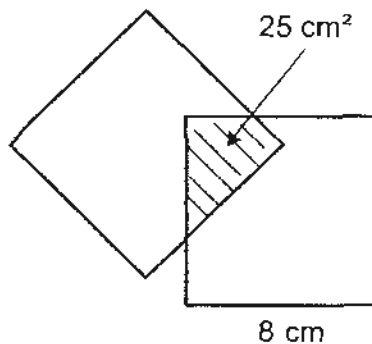
Question 16 to 35 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions must be expressed in the simplest form. Marks will be awarded for relevant working.

16. Fill in the blank with the correct number in the number pattern below.

64 , 76 , 88 , _____ , 112

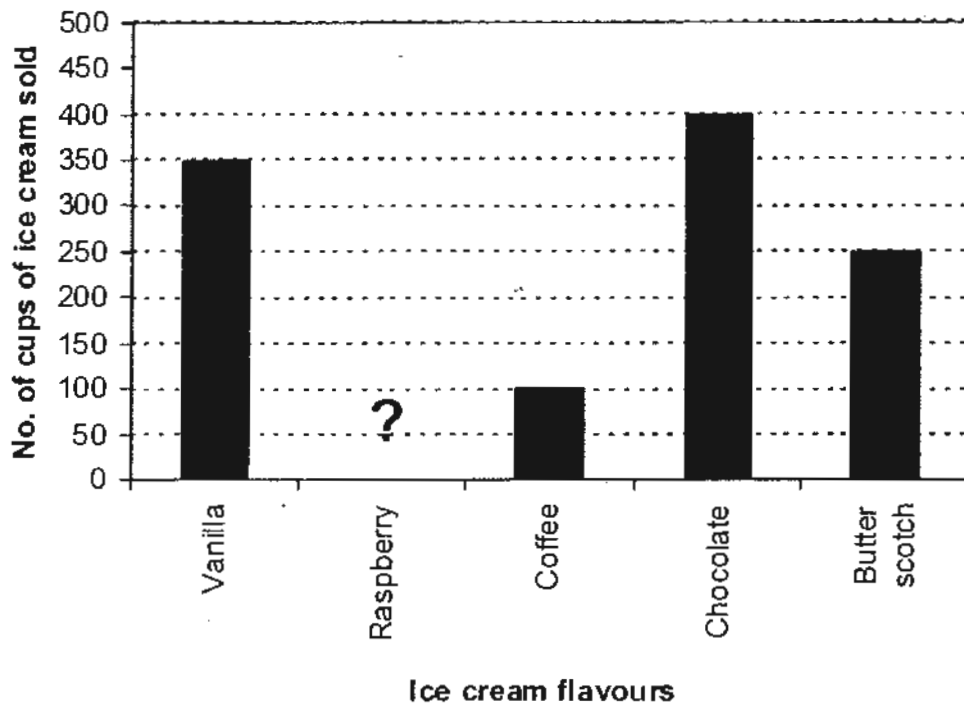
Ans: _____

17. Two identical squares of side 8 cm are arranged as shown in the figure below. The area of the shaded part is 25 cm^2 . Find the area of the unshaded part.



Ans: _____ cm²

18. The graph below shows the number of cups of ice cream sold in a day. Given that a total of 1400 cups of ice cream were sold for the day, how many cups of raspberry ice cream were sold?

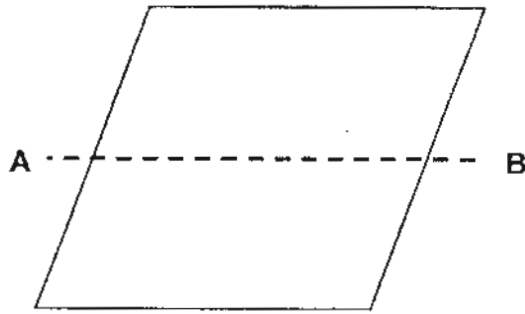


Ans: _____

19. Mrs Tan cut 7 equal pieces of ribbon, each measuring 35 cm long. She had 125 cm of ribbon left. How long was the original length of the ribbon?

Ans: _____ m _____ cm

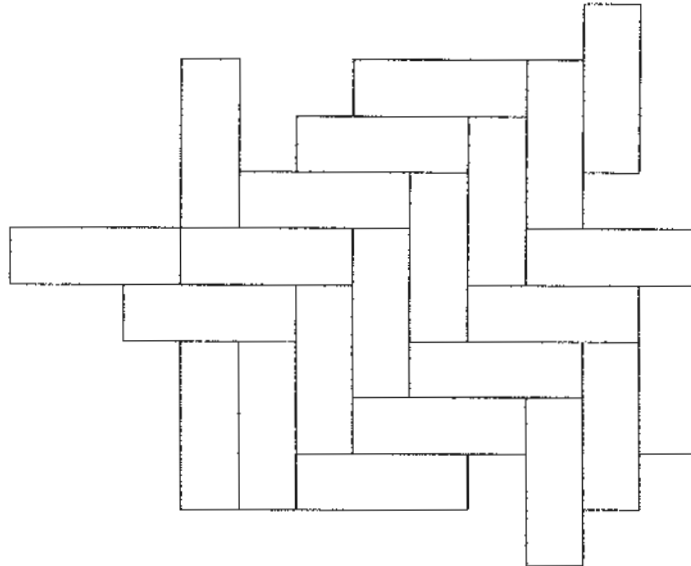
20. Study the figure below. State "True" or "False" to the statement below.



AB is a line of symmetry.

Ans: _____

21. Shade the 2 unit shapes that are tessellated **wrongly**.



22. Arrange the following fractions from the smallest to the greatest.

$$\frac{5}{6}, \quad \frac{5}{12}, \quad \frac{11}{12}$$

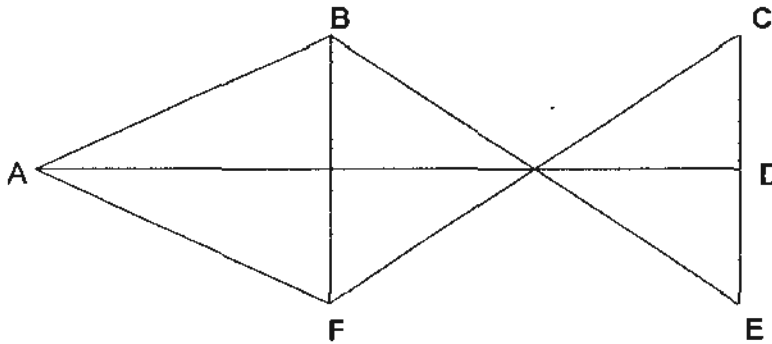
Ans: _____ , _____ , _____
(smallest) (greatest)

23. Arrange these numbers from the smallest to the greatest.

0.682 , 7.3 , 0.703 , 0.085

Ans: _____ , _____ , _____ , _____
(smallest) (greatest)

24. Which one of the following lines is parallel to CE?



Ans: _____

25. Find the value of $1 - \frac{1}{6} - \frac{1}{3}$.

Ans: _____



26. Round off 43 510 to the nearest hundreds.

Ans: _____


27. What is the first common multiple of 3 and 5?

Ans: _____

28. Rita's marks for 4 subjects are shown below.
The Maths and Science marks are covered by ink.
She scored 17 more marks in Maths than in Science.
How many marks did she score for Maths?

| Subject | Score |
|---------------|---|
| English | 80 |
| Mother Tongue | 93 |
| Maths |  |
| Science |  |
| Total | 334 |

Ans: _____

29. Look at the pictures below carefully. What is the mass of  ?

$$\square = 45 \text{ g}$$

$$\text{pentagon} = \begin{array}{c} \square \\ \square \square \end{array}$$

$$2 \text{ pentagons} = \text{circle}$$

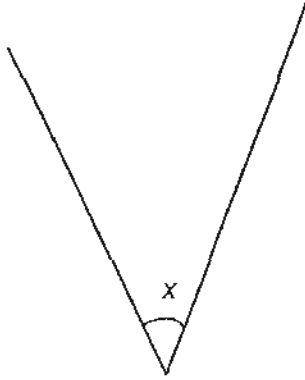
$$\text{circle} = \underline{\quad ? \quad} \text{ g}$$

Ans: _____ g

30. Jane started running at 6.35 a.m.
She ran 400 m in 5 minutes and covered a total distance of 2 km.
What time did she stop running?

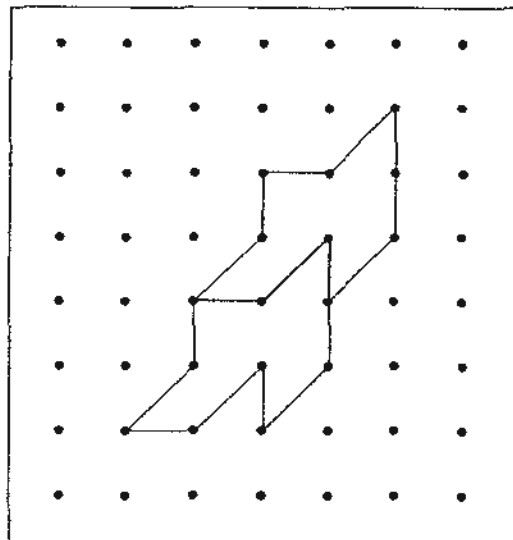
Ans: _____

31. Measure and write down the size of $\angle x$.



Ans: _____°

32. Extend the tessellation by drawing 2 more unit shapes.



33. The mass of a marble is 5.83 g. Find the mass of 7 such marbles.

Ans: _____ g

34. Winnie had 32 more sweets than Rebecca at first.
After Rebecca ate 14 of her sweets,
Winnie had thrice as many sweets as Rebecca.
How many sweets did Winnie have?

Ans: _____

35. Mary bought 72 muffins. Each packet of 9 muffins cost \$5.35.
How much did she pay altogether?

Ans: \$ _____

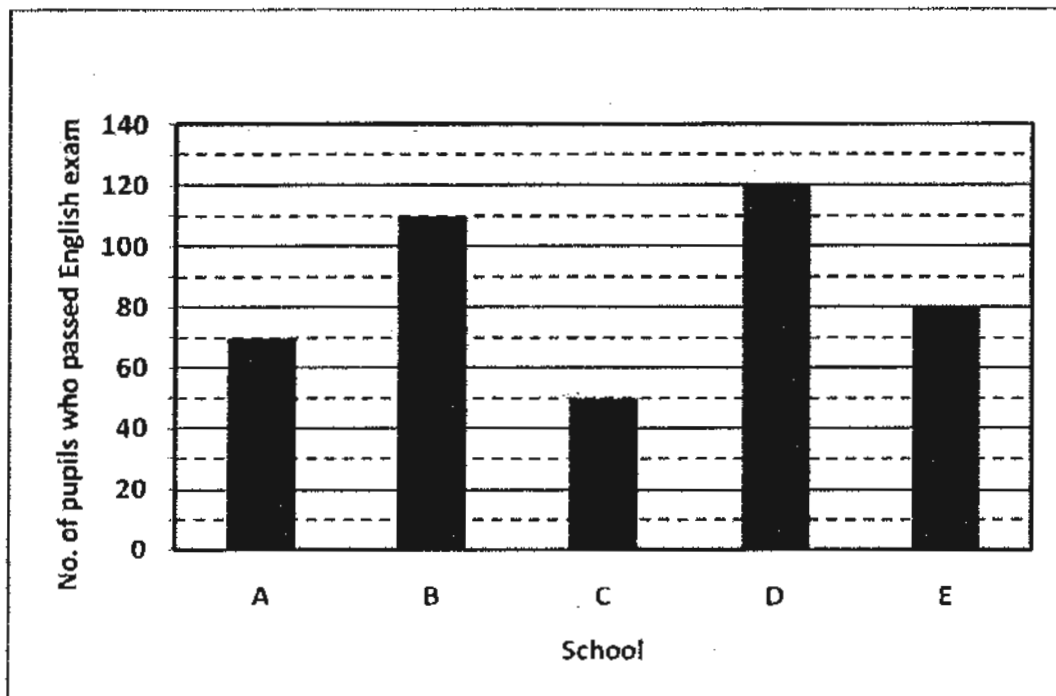
SECTION C (35 marks)

For question 36 to 44, show your working clearly in the space provided below each question and write your answer with suitable units in the spaces provided. All diagrams are not drawn to scale. Answers in fractions must be expressed in the simplest form. Marks will be awarded for relevant working. The number of marks available is shown in brackets [] at the end of each question or part-question.

36. Weili had some fish at first.
Her brother then gave her the same number of fish as the number of fish she had. She put all of them equally into 9 bowls. Each bowl contained 12 fish.
How many fish did she have at first?

Ans: _____ [3]

37. The graph below shows the number of pupils in 5 schools (A, B, C, D and E) who had passed the English Language examination.



- a) There were 65 girls in School B who passed the examination.
How many boys passed the same examination?
- b) Pupils who passed the examination in School A were given 2 bars of chocolate each by the principal.
How many bars of chocolate did the principal give away altogether?
- c) How many more pupils passed the examination in School D as compared to School E?

Ans: (a) _____ [1]

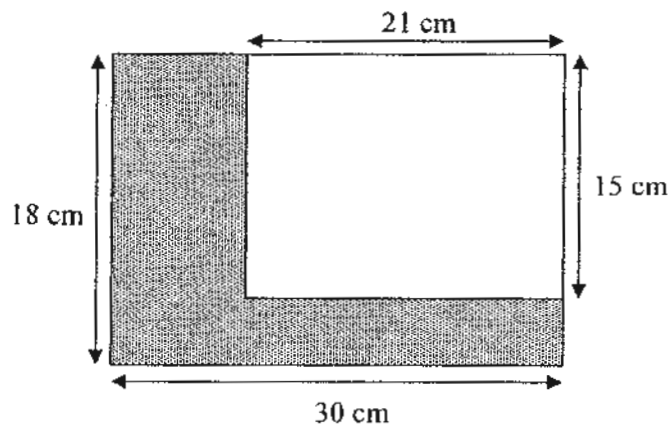
(b) _____ [1]

(c) _____ [1]

38. Mrs Tan bought 6 bags of flour.
She used 8.56 kg of the flour to bake cakes and have 12.92 kg of flour left.
What was the mass of each bag of flour?

Ans: _____ [3]

39. The diagram below shows the floor of a rectangular room.
a) Find the area of the shaded part.
b) How many 3-cm squares are needed to cover the shaded part?



Ans: (a) _____ [2]

(b) _____ [2]

40. A bus carrying 36 passengers left Terminal A for Terminal B.

$\frac{2}{3}$ of the passengers were children.

At Terminal B, $\frac{1}{2}$ of the adults got off the bus and 2 children boarded the bus.

How many passengers were there on the bus when it left Terminal B?

Ans: _____ [4]

41. Weiling attended a piano recital.
In the auditorium, she was led to the fourth row from the stage.
There were 5 seats to the right of Weiling and 8 seats to her left.
Each row had an equal number of seats.
If there were 18 rows behind her, how many seats were there in the auditorium?

Ans: _____ [4]

42. Susan bought 2 bottles of juice. Each bottle contained $1\frac{1}{2}\ell$ of juice.
She needed to fill 15 jugs with $\frac{3}{5}\ell$ of juice in each jug.
How many more bottles of juice should she buy?

Ans: _____ [4]

43. Doreen has some \$5 and \$10 notes.
The notes add up to \$470 in total.
There are four more \$5 notes than \$10 notes.
How many \$5 notes does Doreen have?

Ans: _____ [5]

44. Mrs Tan gave her 3 children, June, Susan and Amy, a sum of money.

June received $\frac{3}{7}$ as much money as Amy.

Susan received the same amount of money as Amy.

If June received \$180 from her mother, how much must Susan and Amy each give to June for the 3 of them to have equal amount of money?

Ans: _____ [5]

-End of Paper-

Please check your work carefully ☺

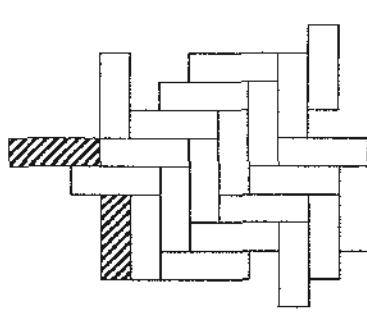
Setters: Mdm Tng Jiew Kim
Ms Chong Jieqi
Ms Wai Sook Har

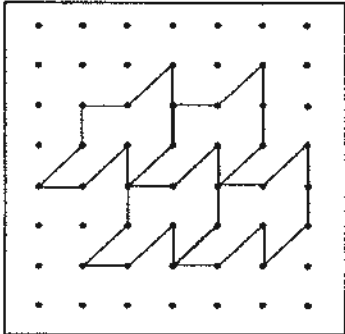
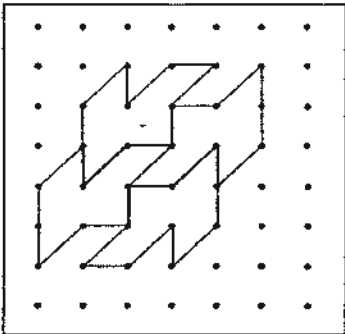
RGPS P4 SA2 Mathematics 2010 Answer Key

Section A (1m each for Q1-5; 2m each for Q6-15)

| | | | | | |
|---|-------|----|-------|----|-------|
| 1 | (3) | 6 | (2) | 11 | (3) |
| 2 | (4) | 7 | (4) | 12 | (1) |
| 3 | (1) | 8 | (1) | 13 | (3) |
| 4 | (3) | 9 | (4) | 14 | (3) |
| 5 | (4) | 10 | (2) | 15 | (3) |

Section B (2 marks each)

| | |
|----|---|
| 16 | <u>100</u> [A2] |
| 17 | $8 \times 8 = 64$ $64 - 25 = 39$ $39 \times 2 = \underline{78}$ [M1, A1] |
| 18 | $1400 - 350 - 100 - 400 - 250 = \underline{300}$ (M1,A1) |
| 19 | $35 \times 7 = 245$ [M1] $245\text{cm} + 125\text{cm} = 370\text{cm}$ $370 \text{ cm} = \underline{3 \text{ m } 70 \text{ cm}}$ [A1] |
| 20 | <u>False</u> [A2] |
| 21 |  <p>Award A1 for each unit shape correctly shaded → Total A2</p> |
| 22 | $\frac{5}{12}, \frac{5}{6}, \frac{11}{12}$ [A2] |

| | | |
|----|---|--|
| 23 | 0.085, 0.682, 0.703, 7.3 [A2] | |
| 24 | BF [A2] | |
| 25 | $1 - \frac{1}{6} - \frac{1}{3} = \frac{3}{6}$ $= \frac{1}{2}$ [M1] [A1] | |
| 26 | 43 500 [A2] | |
| 27 | 3, 6, 9, 12, 15 5, 10, 15 (M1) <u>15</u> (A1) | |
| 28 | $334 - 80 - 93 = 161$ $161 - 17 = 144$ $144 \div 2 = 72$ (M1) $72 + 17 = \underline{89}$ (A1) | $334 - 80 - 93 = 161$ $161 + 17 = 178$ $178 \div 2 = \underline{89}$ (M1,A1) |
| 29 | $3 \times 45 = 135$ [M1] $2 \times 135 = \underline{270}$ [A1] | |
| 30 | $2000 \div 400 = 5$ $5 \times 5 = 25$ [M1] 25min after 6.35am is <u>7a.m.</u> [A1] | |
| 31 | 46 [A1] Also accept 45 and 47 | |
| 32 | <div style="display: flex; align-items: center; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">  </div> <div style="text-align: center;">or</div> <div style="border: 1px solid black; padding: 5px;">  </div> </div> <p>Award A1 for each unit shape correctly drawn → Total A2</p> | |

| | |
|----|--|
| 33 | $5.83 \times 7 = \underline{40.81}$ [M1,A1] |
| 34 | $32 + 14 = 46$ $46 \div 2 = 23$ (M1) $23 + 46 = \underline{69}$ (A1) |
| 35 | $72 \div 9 = 8$ $8 \times 5.35 = \underline{42.80}$ [M1, A1] |

Section C

| | |
|----|---|
| 36 | $9 \times 12 = 108$ [M1] $108 \div 2 = 54$ [M1, A1] |
| 37 | a) <u>45</u> (A1) b) <u>140</u> (A1) c) <u>40</u> (A1) |
| 38 | $8.56 + 12.92 = 21.48$ (M1) $21.48\text{kg} \div 6 = \underline{3.58\text{kg}}$ (M1, A1) |
| 39 | a) $18 \times 30 = 540$ $21 \times 15 = 315$ $540\text{cm}^2 - 315\text{cm}^2 = \underline{225\text{cm}^2}$ (M1, A1) b) $30 \div 3 = 10$ $18 - 3 = 15$ $30 - 21 = 9$ $15 \div 3 = 5$ $9 \div 3 = 3$ $5 \times 3 = 15$ [M1] $10 + 15 = \underline{25}$ [A1] |
| 40 | $36 \div 3 = 12$ $12 \div 2 = 6$ (M1) $6 - 2 = 4$ (M1) $36 - 4 = \underline{32}$ (M1,A1) |

| | |
|----|--|
| 41 | No. of seats in each row = $5 + 1 + 8$ (M1) $= 14$ Total no. of rows = $4 + 18$ (M1) $= 22$ Total no. of seats in auditorium = 22×14 (M1) $= \underline{308}$ (A1) |
| 42 | $2 \times 1\frac{1}{2}l = 3l$ $15 \times \frac{3}{5}l = 9l$ [M1] $9l - 3l = 6l$ [M1] $6l \div 1\frac{1}{2}l = \underline{4}$ [M1, A1] |
| 43 | $5 \times 4 = 20$ (M1) $470 - 20 = 450$ (M1) $450 \div 15 = 30$ (M1) $30 + 4 = \underline{34}$ (M1,A1) |
| 44 | $180 \div 3 = 60$ [M1] $60 \times 7 = 420$ $420 + 420 + 180 = 1020$ [M1] $1020 \div 3 = 340$ [M1] $340 - 180 = 160$ $\$160 \div 2 = \underline{\$80}$ [M1, A1] |