403 / SA2 / 31

MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 2

PRIMARY 4 MATHEMATICS

27 OCTOBER 2015

BOOKLET A

20 questions

40 marks

Total time for Booklets A and B: 1 h 45 min

NAME : _____

CLASS : PRIMARY 4 _____

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FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

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Section A (20 x 2 = 40 marks)

For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

---

1. 80 000 + 7000 + 600 + 5 = _____

   (1) 80 765

   (2) 87 065

   (3) 87 605

   (4) 87 650

2. 23 658 rounded off to the nearest thousand is _____.

   (1) 23 600

   (2) 23 660

   (3) 23 700

   (4) 24 000

3. Which of the following is **not** an equivalent fraction of $\frac{1}{4}$?

   (1) $\frac{2}{8}$

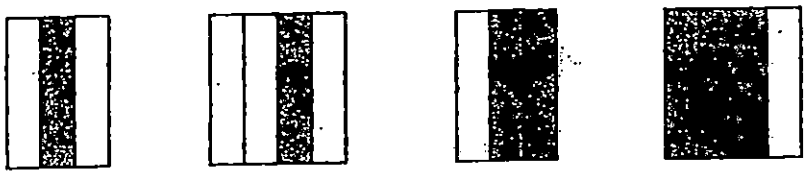
   (2) $\frac{3}{12}$

   (3) $\frac{5}{16}$

   (4) $\frac{6}{24}$

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4. Which one of the following has $\frac{1}{3}$ of the figure shaded?



(1) (2) (3) (4)

5. Express 0.05 as a fraction in its simplest form.

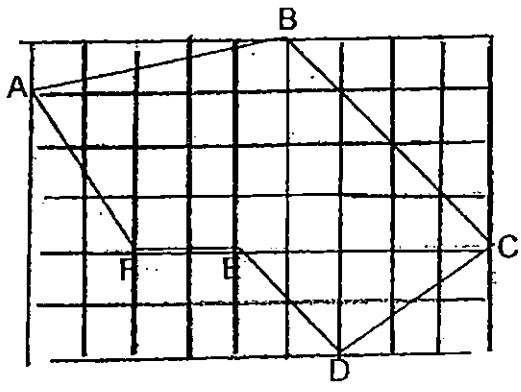
(1) $\frac{1}{2}$

(2) $\frac{1}{5}$

(3) $\frac{1}{20}$

(4) $\frac{1}{50}$

6. Figure ABCDEF is drawn on the square grid shown below. Which one of the following statements is true?



(1) AB is parallel to FE

(2) BC is parallel to ED

(3) AF is perpendicular to FE

(4) CD is perpendicular to ED

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7. Mrs Anthony bought 2.4 kg of mutton at $9 for each kg and 1.5 kg of beef at $6 for each kg. She gave the cashier $50. How much change did she receive?

(1) $19.40

(2) $21.60

(3) $30.60

(4) $35.00

8. The table below shows the schedule of movies on the HBO channel.

Time	Programme
08 00	Ninja Tortoise
09 30	Captain Jamaica
10 45	Minion Nation
12 30	Jurassic Planet

Marcus watched Ninja Tortoise and Minion Nation. How much time did he spend watching the two movies?

(1) 2 h 45 min

(2) 3 h 15 min

(3) 3 h 45 min

(4) 4 h 30 min

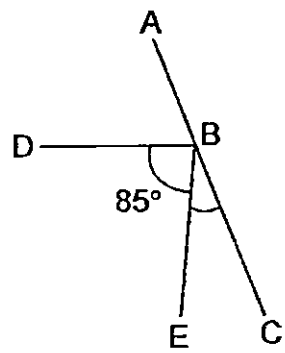
9. AC is a straight line. ∠ABD is 25° bigger than ∠CBE. Find ∠CBE.

(1) 35°

(2) 60°

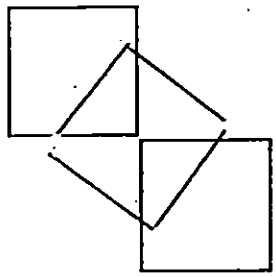
(3) 70°

(4) 95°



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10. The figure below is made up of 3 identical squares. How many right angles are there in the figure?



(1) 6

(2) 10

(3) 12

(4) 14

11. A chair is 480 g heavier than a book. It weighs 3 times as heavy as the book. Find the total mass of the chair and the book.

(1) 240 g

(2) 720 g

(3) 800 g

(4) 960 g

12. Ms Chow bought 60 key chains. After giving 17 key chains to Sean and some key chains to Hamid, she had $\frac{1}{6}$ of the key chains left. How many key chains did Ms Chow give Hamid?

(1) 10

(2) 27

(3) 33

(4) 43

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13. Mr Tan accidentally spilt an ink blot on his receipt. What is the greatest possible total amount on the receipt?

(1) $14.04

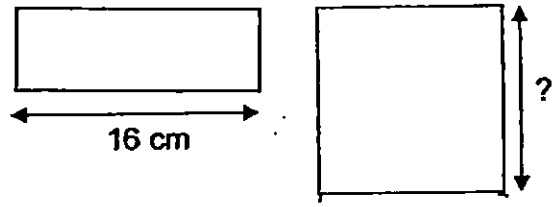
(2) $14.64

(3) $14.74

(4) $14.94

Dwarf Minimart	
Cereal	: $5.85
Shampoo	: $4.80
Sweets	: $3[redacted]
Total	**: $14[redacted]**

14. The rectangle and square below have the same area. The length of the rectangle is 4 times its breadth. What is the length of one side of the square?



(1) 16 cm

(2) 10 cm

(3) 8 cm

(4) 4 cm

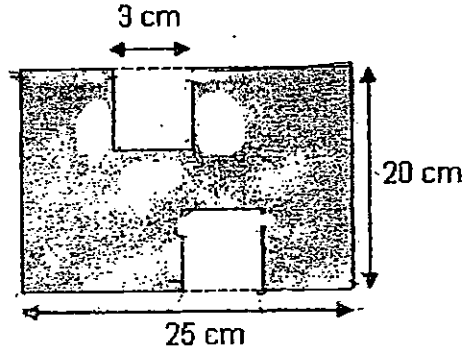
15. Two identical squares are cut out from a rectangle as shown below. Find the perimeter of the remaining portion which is shaded.

(1) 102 cm

(2) 90 cm

(3) 78 cm

(4) 66 cm



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16. Demetria bought 3 skirts and 4 blouses for $217. Each blouse cost $14 less than a skirt. How much did a blouse cost?

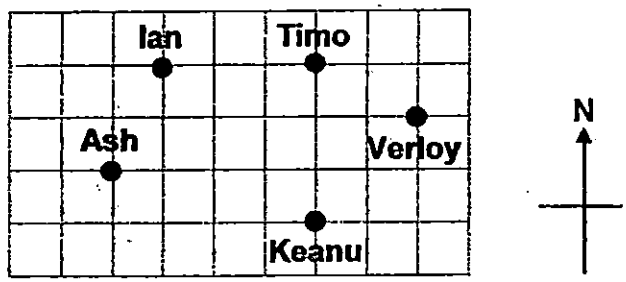
(1) $17

(2) $25

(3) $31

(4) $39

Look at the diagram below carefully. Use it to answer Questions 17 and 18.



17. Verloy is facing North. Who will he be facing if he turns 225° in the clockwise direction?

(1) Ian

(2) Ash

(3) Timo

(4) Keanu

18. Timo and Ian were facing the same direction at first. Timo made a $\frac{1}{4}$-turn in the anti-clockwise direction and faced Keanu after the turn. Ian made a 135° turn in the clockwise direction. Which direction will he be facing after the turn?

(1) West

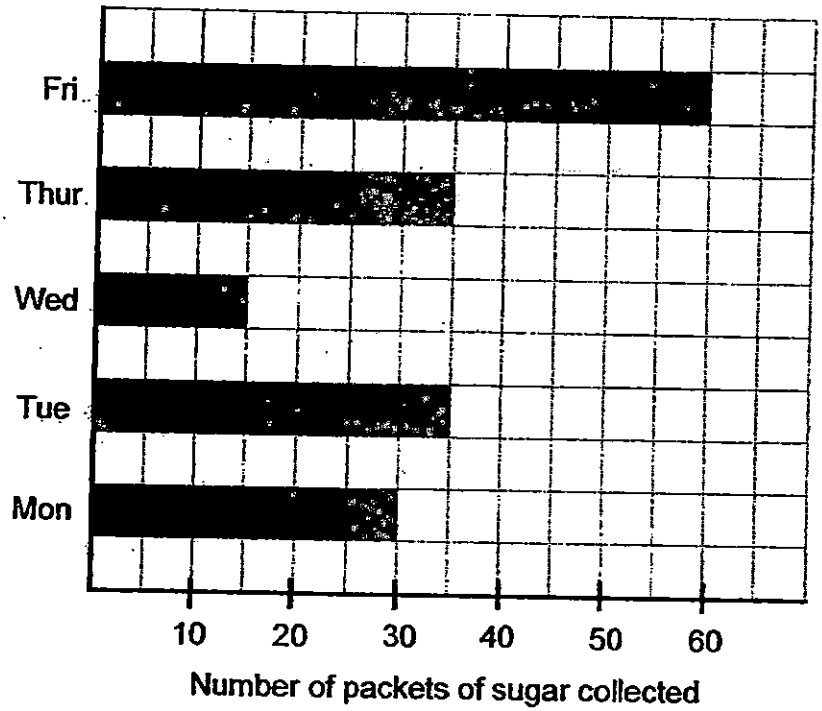
(2) North-East

(3) North-West

(4) South-West

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The students from Primary 4K collected packets of sugar for a cupcake bake sale. The graph below shows the number of packets of sugar collected over five days. Study the graph carefully and answer Questions 19 and 20.



19. The number of packets of sugar collected on Monday was twice of that collected on _____.

(1) Tuesday

(2) Wednesday

(3) Thursday

(4) Friday

20. 2 packets of sugar were needed to bake a tray of 24 cupcakes. How many cupcakes did the students bake from their collection on Friday?

(1) 360

(2) 420

(3) 720

(4) 760

End of Section A

Go on to Booklet B

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MARIS STELLA HIGH SCHOOL (PRIMARY)
SEMESTRAL ASSESSMENT 2
PRIMARY 4 MATHEMATICS
27 OCTOBER 2015
BOOKLET B

25 questions

60 marks

Total time for Booklets A and B: 1 h 45 min

NAME : _____

CLASS : PRIMARY 4 _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.

MARKS OBTAINED :

BOOKLET A: _____ / 40

BOOKLET B: _____ / 60

TOTAL : _____ / 100

Parent's Signature: _____

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Section B (20 x 2 = 40 marks)

Show your working clearly in the spaces below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write in this space.

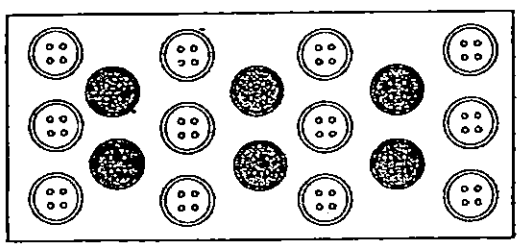
21. What is the value of the digit **8** in 84 659?

Answer: _____

22. Some factors of 32 are 1, 2, 4 and 32. What are the other two factors of 32?

Answer: _____ and _____

23. What fraction of the buttons shown are grey in colour?



Answer: _____

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

$\frac{1}{3}$ $\frac{3}{6}$ $\frac{7}{12}$

Answer: _____ (greatest), _____, _____ (smallest)

SCORE

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25. What is the value of $\frac{5}{6} + \frac{2}{3}$?

Express your answer as a mixed number.

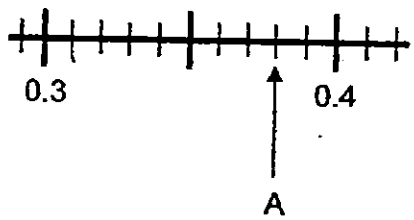
Do not write in this space.

Answer: _____

26. Write 4 tenths as a decimal.

Answer: _____

27. Write the decimal represented by A.



Answer: _____

28. 6.27 – 4.38 = _____

Answer: _____

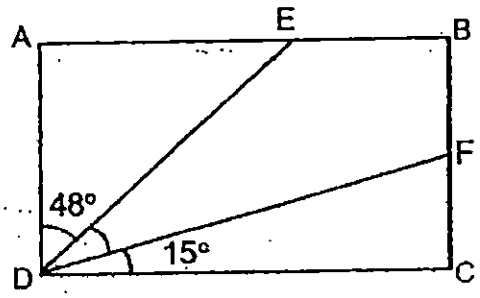
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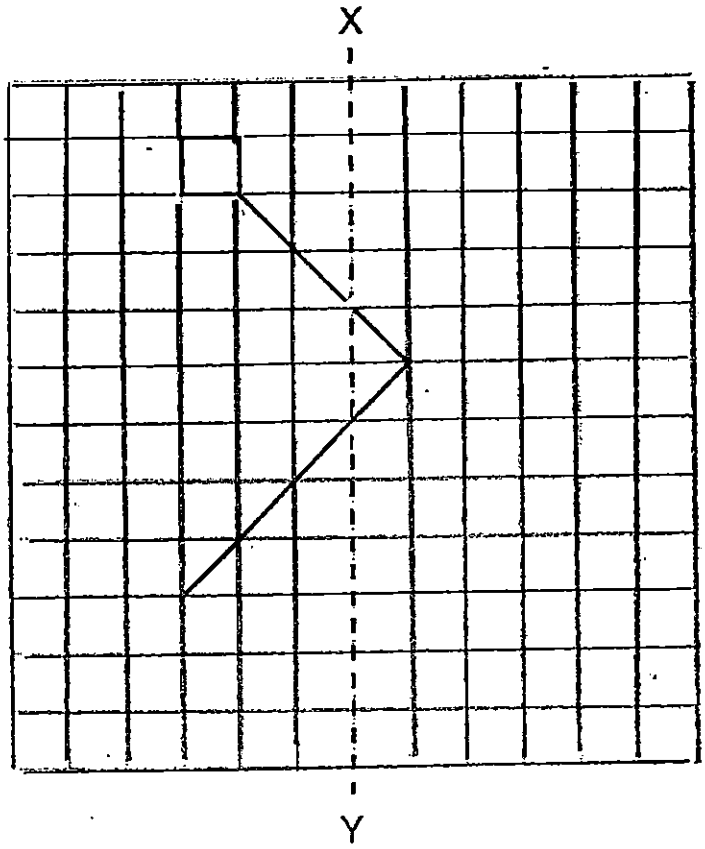
29. In the figure shown, ABCD is a rectangle. Find ∠EDF.

Do not write in this space.



Answer: _____°

30. Using XY as the line of symmetry, complete the symmetrical figure below.



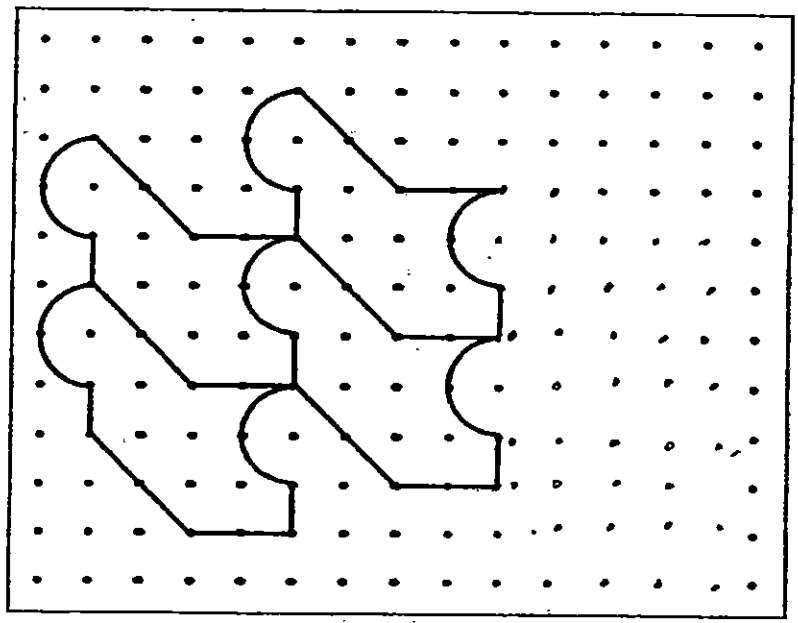
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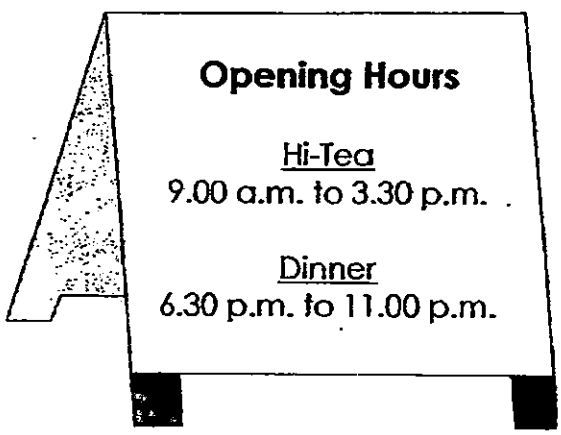
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31. Draw **2 more** unit shapes in the space provided below. You are to follow the tessellation pattern used in the diagram.

Do not write in this space.



32. The Eight Treasures Restaurant opens daily. The opening hours are shown in the signboard below. How long is the restaurant open every day?



Answer: _____ h

SCORE

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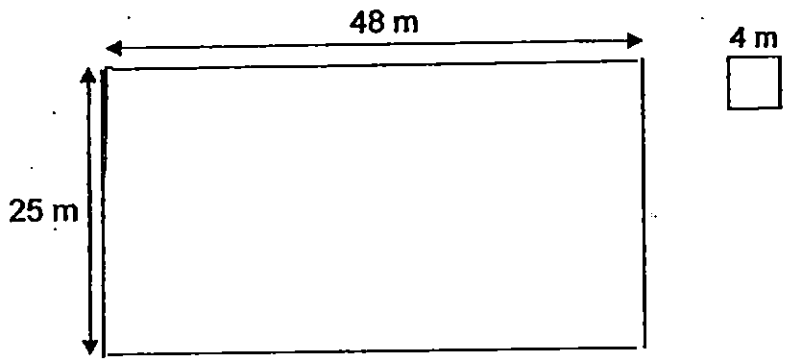
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33. Michael paid $120 for 4 shirts and 4 ties. 3 shirts cost as much as 2 ties. How much did a shirt cost?

Do not write in this space.

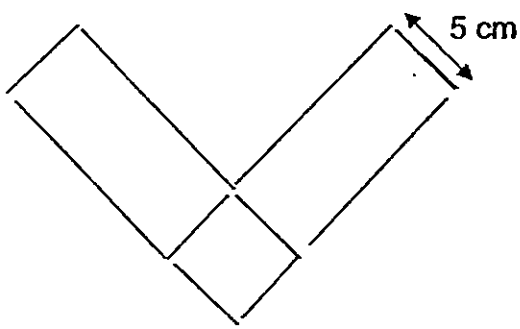
Answer: $_____

34. How many pieces of square grass carpets, each of side 4 m long, are needed to cover a rectangular field of length 48 m and breadth 25 m?



Answer: _____

35. The figure below is made up of two identical rectangles and a square. The area of one of the rectangles is 60 cm^2. Find the perimeter of the figure.



Answer: _____ cm

SCORE

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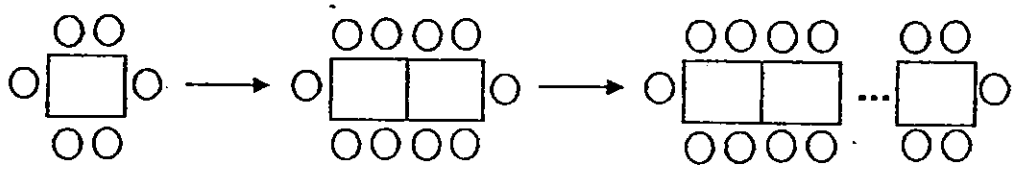
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36. Huiyun had $240 and Gladys had $360. After they each spent an equal amount of money, Gladys had twice as much money as Huiyun. How much money had Gladys in the end?

Do not write in this space.

Answer: $_____

37. A rectangular table can seat 6 children. How many such tables are required to seat 98 children if the tables are put together in the same manner as shown below?



1 table
6 children

2 tables
10 children

? tables
98 children

Answer: _____

SCORE

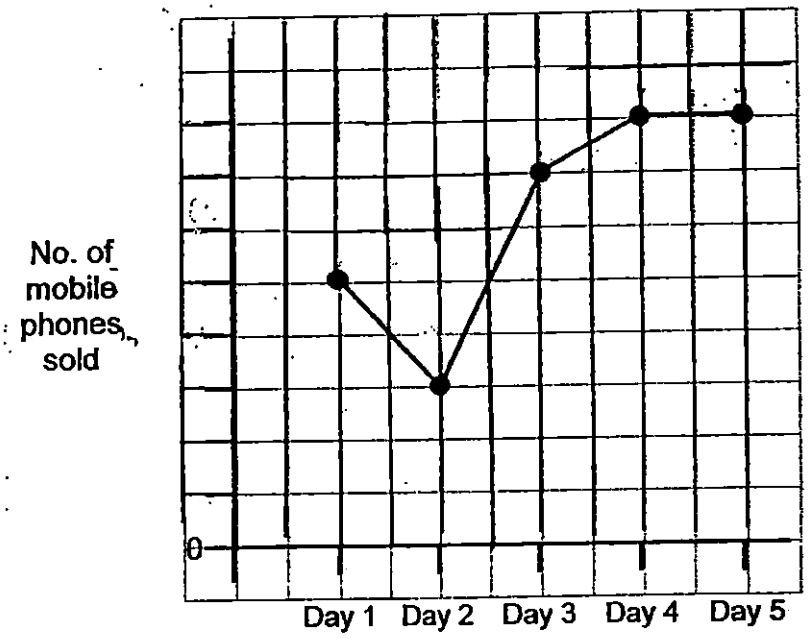
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The line graph below shows the number of mobile phones sold in a shop over five days. 250 mobile phones were sold on Day 1.

Do not write in this space.

Study the line graph below carefully and answer Questions 38 and 39.



38. How many mobile phones were sold in the shop over the five days?

Answer: _____

39. On Day 6, the shop sold $\frac{5}{7}$ of the mobile phones sold on Day 3.

How many mobile phones were sold on Day 6?

Answer: _____

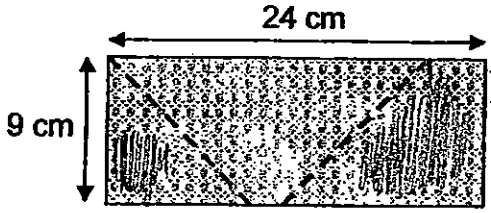
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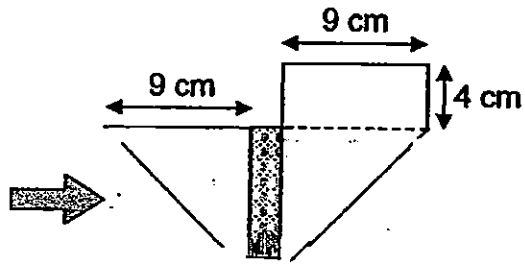
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40. Figure 1 shows a rectangular piece of paper measuring 24 cm by 9 cm. It is folded along the dotted lines to form Figure 2. Find the area of Figure 2.

Do not write in this space.



Before folding
Figure 1



After folding
Figure 2

Answer: _____ cm^2

SCORE
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Section C (5 x 4 = 20 marks)

Work out the answers for each of the following questions. All workings must be shown.

41. A table costs $294. It costs 3 times as much as a chair.

Mr Williams buys 1 table and 4 chairs.

How much does he pay altogether?

Do not write in this space.

Answer: _____ [4]

SCORE

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42. Tank A has 3 times as much petrol as Tank B. Tank C has 4.8 ℓ less petrol than Tank A. There is a total of 93.2 ℓ of petrol in all the three tanks. How much petrol is there in Tank A?

Do not write in this space.

Answer: _____ [4]

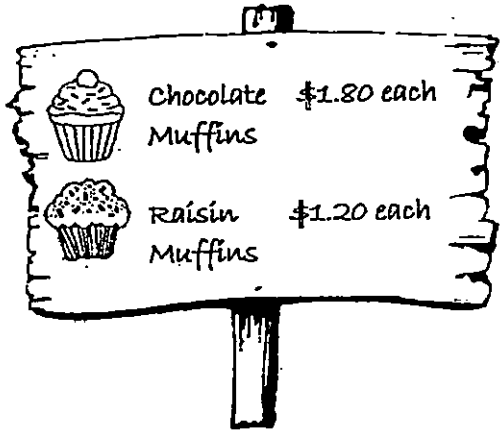
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43. Muffins are sold in Delicious Bakery at the prices shown below.

Do not write in this space.



Mrs Wong bought 5 more raisin muffins than chocolate muffins from this bakery. She paid $12 in total. How many muffins did Mrs Wong buy altogether?

Answer: _____ [4]

SCORE

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44. Richard and Tina had a total of 440 charity tickets.

Richard sold $\frac{1}{3}$ of his tickets and Tina sold $\frac{2}{5}$ of hers.

They sold an equal number of tickets each.

How many tickets did Richard have at first?

Do not write in this space.

Answer: _____. [4]

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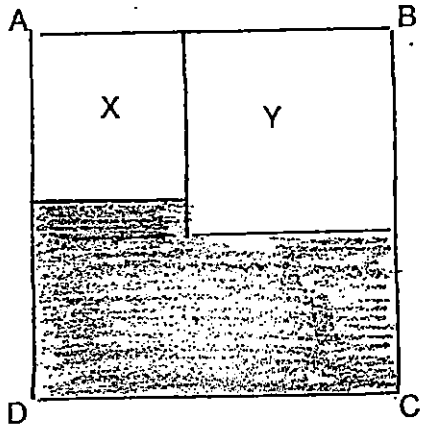
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45. The figure below shows Square X and Square Y inside Square ABCD. The area of Square Y is 49 cm^2 and the area of Square ABCD is 144 cm^2.

(a) Find the length of one side of Square X.

(b) Find the perimeter of the shaded region.



Do not write in this space.

Answer: (a) _____ [2]

(b) _____ [2]

END OF PAPER

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EXAM PAPER 2015
LEVEL : PRIMARY 4
SCHOOL : MARIS STELLA HIGH SCHOOL
SUBJECT : MATHEMATICS
TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	3	1	3	2	1	2	1	4
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
4	3	2	3	1	2	4	2	2	3

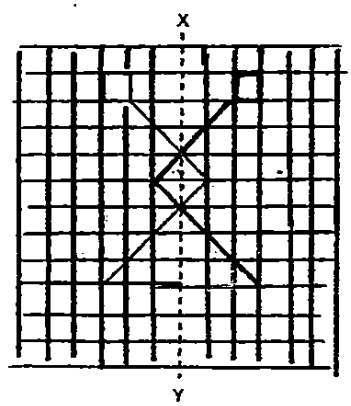
Q21. 80 000 Q22. 16 and 8 Q23. ⅓

Q24. $\frac{7}{12}$ (greatest), $\frac{3}{6}$, ⅓ (smallest) Q25. 1½

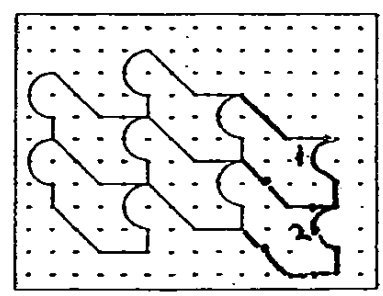
Q26. 0.4 Q27. 0.38 Q28. 1.89 Q29. 27° → 48=15=63, 90 – 63=27

Q30. SEE PICTURE **Q31. SEE PICTURE**

30. Using XY as the line of symmetry, complete the symmetrical figure below.



31. Draw 2 more unit shapes in the space provided below. You are to follow the tessellation pattern used in the diagram.



Q32. 11h Q33. $12 → 1.5=120, 15 = 12

Q34. 72 → 12 x 6 = 72 Q35. 68cm → 12 x 4 = 48, 5 x 4 = 20, 48=20=68

Q36. $240 → 360 – 240=120, 1u = 120, 2u = 240

Q37. 24 → 98 – 2 = 96, 96÷4=24

Q38. 1550 → 31 x 50 = 1550 Q39. 250 → 350÷7=50, 50 x 5 = 250

Q40. 135cm²
A and B = 9 x 9 = 81
C = 9 x 4 =36, D = 2x9 = 18, 81+36+18=135

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Q41. $686 → 3U = 294, 1U=98, 7U = 686

Q42. 42 litre
93.2=4.8=98, 7u =98, 1u=14, 3u = 14 x 3 = 42

Q43. 9 → 1.20 x 5 = 6, 6÷3=2

Q44. 240 → 11u = 440, 1u=40, 6u = 240

Q45. 5cm(a) Q45b.38cm → 5=2+7+5+12+7=38

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