METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

END-OF-YEAR EXAMINATION 2015
PRIMARY 5
MATHEMATICS

PAPER 1
(BOOKLET A)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 5._____

Date: 28 October 2015

/20

This booklet consists of 8 printed pages including this page.

Questions **1** to **10** carry 1 mark each. Questions **11** 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 the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

---

1. Round off 650 999 to the nearest thousand.

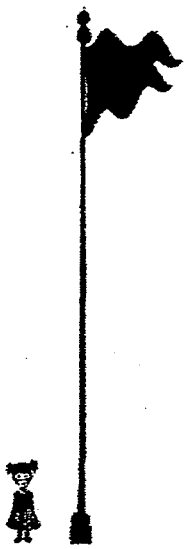
   (1) 650 000

   (2) 651 000

   (3) 660 000

   (4) 700 000

2. The height of the flag pole shown below is about _____.



   (1) 6 cm

   (2) 60 cm

   (3) 600 cm

   (4) 6 000 cm

3. What is the value of 9 hundreds, 50 tenths and 7 thousandths?

(1) 900.507

(2) 905.007

(3) 905.570

(4) 950.070

4. Express $1\frac{3}{4}$ hour in minutes.

(1) 90 min

(2) 105 min

(3) 134 min

(4) 145 min

5. Which one of the following has the same value as $\frac{2}{3} \div 8$?

(1) $\frac{2}{3} \times \frac{1}{8}$

(2) $\frac{2}{3} \times 8$

(3) $\frac{3}{2} \times \frac{1}{8}$

(4) $\frac{3}{2} \times 8$

6. $\frac{6}{10}$ is the same as _____.

(1) 0.06%

(2) 0.6%

(3) 6%

(4) 60%

7. Find the value of $\frac{3}{4} + 1\frac{2}{3}$.
Give your answer as a mixed number in the simplest form.

(1) $1\frac{5}{12}$

(2) $1\frac{7}{12}$

(3) $2\frac{5}{12}$

(4) $2\frac{7}{12}$

8. Express 0.34 as a fraction in the simplest form.

(1) $\frac{17}{50}$

(2) $\frac{34}{100}$

(3) $\frac{17}{100}$

(4) $\frac{34}{1000}$

9. Caitlyn played 14 tennis matches. Sara played 6 fewer matches than Caitlyn. Find the ratio of the number of matches Caitlyn played to the total number of matches both girls played.

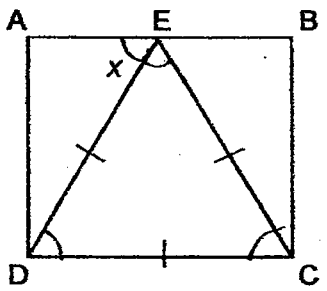
(1) 7 : 3

(2) 7 : 4

(3) 7 : 10

(4) 7 : 11

10. In the figure below, ABCD is a rectangle and CED is an equilateral triangle. Find $\angle x$.



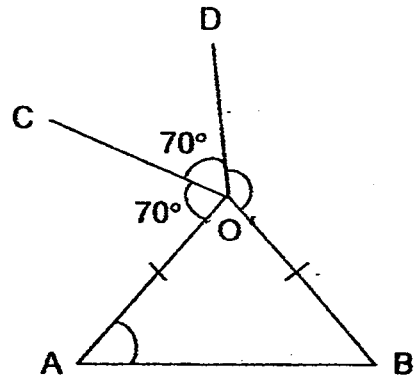
(1) 30°

(2) 45°

(3) 60°

(4) 90°

11. In the figure below, OAB is an isosceles triangle. $\angle DOB$ is twice the size of $\angle COD$ and $\angle COD = \angle COA = 70°$. Find $\angle OAB$.



(1) 35°

(2) 50°

(3) 70°

(4) 80°

12. May and Jane shared $474. May received twice as much money as Jane. How much money did May receive?

(1) $118.50

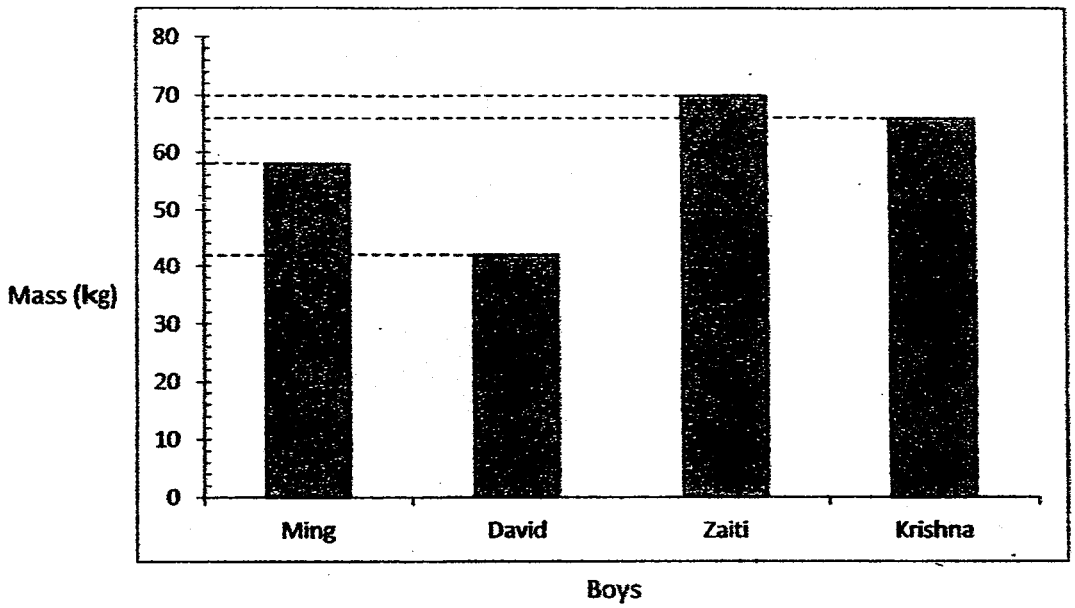
(2) $158

(3) $237

(4) $316

(Go on to the next page)

13. The bar graph below shows the mass of 4 boys.



What is the average mass of the 4 boys?

(1) 57 kg

(2) 59 kg

(3) 228 kg

(4) 236 kg

14. The ratio of the number of men to the number of women was 4 : 3. The ratio of the number of women to the number of children was 5 : 2. What was the ratio of the number of men to the number of women to the number of children?

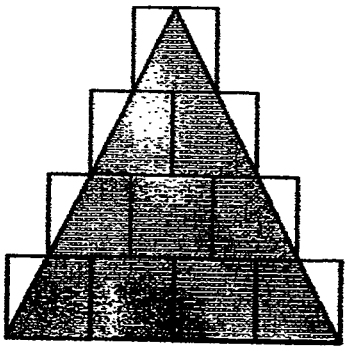
(1) 4 : 3 : 2

(2) 4 : 8 : 2

(3) 12 : 15 : 10

(4) 20 : 15 : 6

15. The figure below is made up of ten 4-cm squares. Find the area of the shaded part.



(1) 40 cm^2

(2) 128 cm^2

(3) 160 cm^2

(4) 256 cm^2

(Go on to Booklet B)

METHODIST GIRLS' SCHOOL (PRIMARY)

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END-OF-YEAR EXAMINATION 2015
PRIMARY 5
MATHEMATICS

PAPER 1
(BOOKLET B)

Total Time for Booklets A and B: 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 5._____

Date: 28 October 2015

Parent's Signature : _____

Paper 1 Booklet A	**/ 20**
Paper 1 Booklet B	**/ 20**
Paper 2	**/ 60**
TOTAL	**/ 100**

This booklet consists of 8 printed pages including this page.

Questions **16** to **25** carry **1** mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

16. What is the greatest odd number that can be formed using the digits 2, 8, 0, 7, 3?

Ans : _____

17. Find the value of $\frac{4}{9} \times \frac{3}{10}$. Give your answer in the simplest form.

Ans : _____

18. $4.08 \times 20 = 1.08 \times 20 + \square \times 20$.

What is the missing number in the box?

Ans : _____

(Go on to the next page)

19. Arrange the following from the smallest to the largest.

Do not write in this space

0.25 , 0.4 , $\frac{4}{11}$, $\frac{1}{10}$

Ans : _____ , _____ , _____ , _____

20. Express 2.09 as a percentage.

Ans : _____ %

21. At a furniture store, the usual price of a bed is $880. During a sale, Mrs Lim received a 15% discount. How much was the discount?

Ans : $ _____

(Go on to the next page)

Use the information below to answer questions 22 and 23.

The table shows the number of local and foreign visitors who visited the Singapore Zoo over a weekend.

Number of visitors				
Singaporean	Malaysian	Indonesian	Korean	Japanese
1250	290	185	95	180

Do not write in this space

22. What is the ratio of the number of local visitors to the number of foreign visitors? Give your answer in the simplest form.

Ans : _____

23. What percentage of the visitors were Japanese?

Ans : _____ %

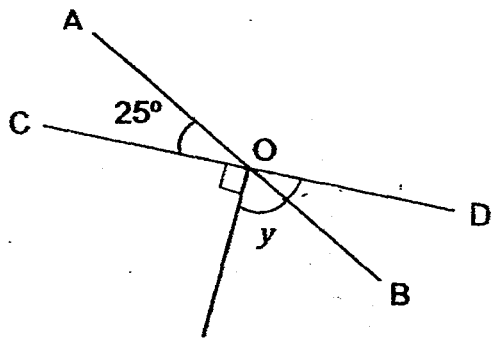
(Go on to the next page)

24. There were 120 children in a camp. 84 of them were boys. What percentage of the children were girls?

Do not write in this space

Ans : _____ %

25. In the figure below, AB and CD are straight lines. $\angle AOC = 25°$. Find $\angle y$.



Ans : _____ °

(Go on to the next page)

Questions **26** to **30** 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)

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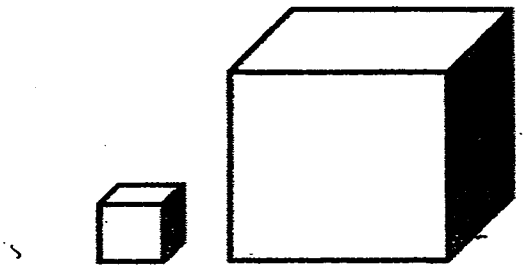
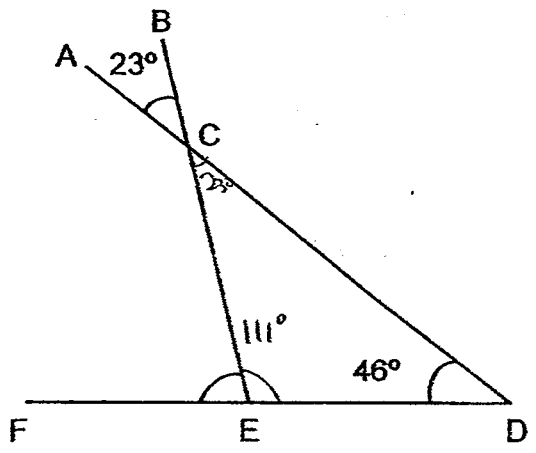
26. Hakim has two cubes made of the same substance. The small cube is a unit cube with mass 14 g. The base of the large cube is three times that of the small cube. What is the mass of the large cube?



Ans: _____ g

27. In the figure below, AD, BE and FD are straight lines. $\angle ACB = 23^\circ$ and $\angle CDE = 46^\circ$. Find $\angle CEF$.

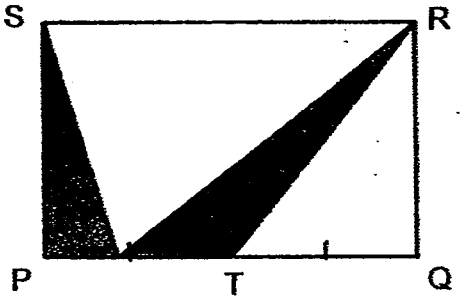


Ans : _____ °

(Go on to the next page)

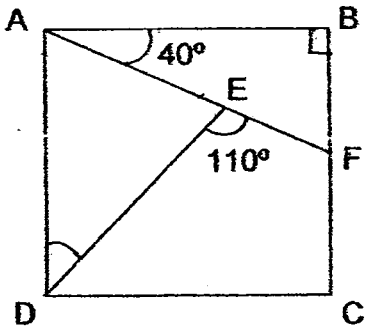
28. In the figure, PQRS is a rectangle with PT = TQ. What fraction of the figure is shaded?

Do not write in this space



Ans : _____

29. In the figure below, ABCD is a square. AEF is a straight line. ∠DEF = 110° and ∠BAE = 40°. Find ∠ADE.



Ans : _____ °

(Go on to the next page)

30. The ratio of the number of oranges to the number of lemons in a basket was 3 : 5. After 48 oranges were sold, the ratio of the number of oranges to the number of lemons became 1 : 2. How many lemons were there in the basket at first?

Do not write in this space

Ans :

End of Paper

METHODIST GIRLS' SCHOOL (PRIMARY)

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END-OF-YEAR EXAMINATION 2015
PRIMARY 5
MATHEMATICS

PAPER 2

Duration: 1hour 40 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of an approved calculator is expected, where appropriate.

Name: _____ ( )

Class: Primary 5._____

Date: 28 October 2015

Parent's Signature : _____

60

This booklet consists of 12 printed pages including this page.

Questions **1** to **5** 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)

Do not write in this space

1. The ratio of the number of stickers Sandy has to the number of stickers Tina has is 5 : 4. Both girls have a total of 117 stickers. How many stickers does Tina have?

Ans : _____

2. May bought $\frac{3}{4}$ kg of sugar. She used $\frac{1}{2}$ of it to bake some muffins. How much sugar did she use to bake muffins? Give your answer in grams.

Ans : _____ g

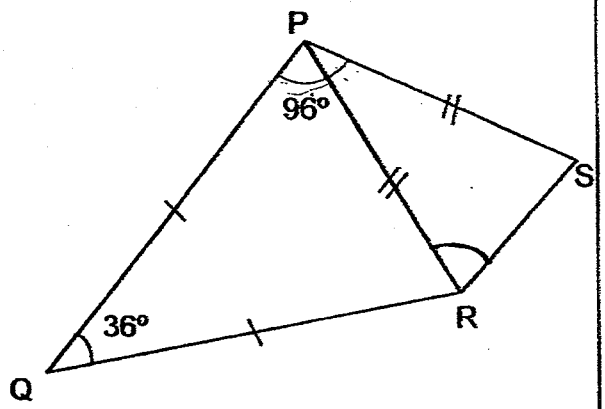
3. Paul had \$630. He spent \$70 on books and $\frac{2}{7}$ of the remainder on calculators. How much money had he left?

Ans : \$ _____

(Go on to the next page)

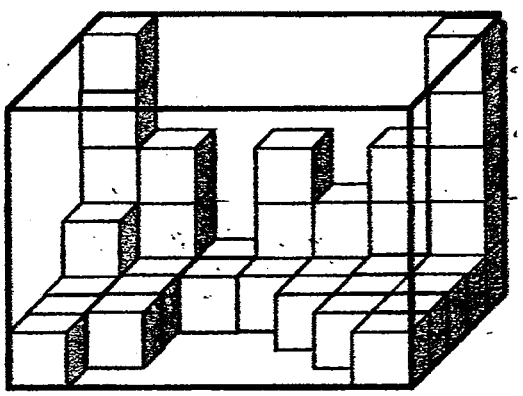
4. In the figure below, PQR and PRS are isosceles triangles. $\angle PQR = 36°$ and $\angle QPS = 96°$. Find $\angle PRS$.

Do not write in this space



Ans: _____ °

5. Dinesh put some 1-cm cubes into a rectangular box as shown below.



(a) What is the volume of the rectangular box?
(b) How many **more** such cubes are needed to fill the box completely?

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

(b) _____ [1]

For questions **6** to **18**, show your working clearly and write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Do not write in this space

6. The table shows the T-shirt sizes of class 6A, 6B and 6C.
The average number of pupils in the 3 classes is 38.

Size of T-shirt	Class 6A	Class 6B	Class 6C
S	9	12	0
M	21	19	24
L	8	?	13

(a) How many pupils in Class 6B ordered T-shirt Size L?
(b) What is the average number of pupils who ordered size S in the 3 classes?

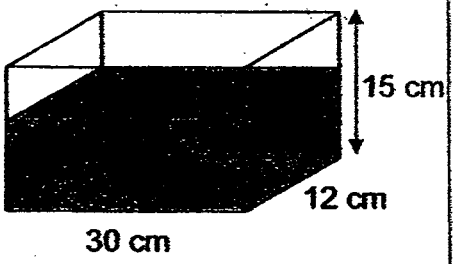
Ans: (a) _____ [2]

(b) _____ [1]

(Go on to the next page)

7. A rectangular tank measures 30 cm by 12 cm by 15 cm is filled with water from a tap. The tank is $\frac{3}{5}$ - filled with water after 3 minutes. Find the volume of the water that flowed from the tap per minute. Give your answer in litres and millilitres.

Do not write in this space



Ans: _____ [3]

8. Mark bought some blue, red and green marbles. He bought 72 blue marbles. The ratio of the number of red marbles to the number of blue marbles is 5 : 6. The number of red marbles is twice that of the number of green marbles. How many green marbles did Mark have?

Ans: _____ [3]

9. Mae, Wei Ling and Siti bought a present for $45. In addition, they had to pay 7% GST.

(a) Find the amount of GST paid.

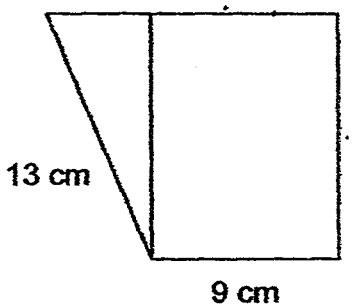
(b) How much did each person pay if the cost of present was shared equally among the 3 girls?

Do not write in this space

Ans : (a) _____ [1]

(b) _____ [2]

10. The figure is made up of a rectangle and a triangle. The area of the rectangle is 108 cm^2. The perimeter of the figure is 48 cm. Find the area of the figure.



Ans : _____ [3]

(Go on to the next page)

11. There were 72 children. $\frac{7}{12}$ of them were boys. The ratio of the total number of sweets the girls had to the total number of sweets the boys had was 1 : 2. There were a total of 756 sweets.

(a) How many girls were there?
(b) How many sweets did each boy have?

Do not write in this space

Ans: (a) _____ [1]

(b) _____ [3]

12. Some pupils were grouped into Group A, Group B and Group C. Group A had 36 more pupils than Group B. Group B and Group C had 114 pupils each. A number of pupils were transferred from Group A to Group B and Group C so that there was equal number of pupils in all 3 groups. What percentage of the members from Group A has transferred to Group B?

Ans: _____ [4]

(Go on to the next page)

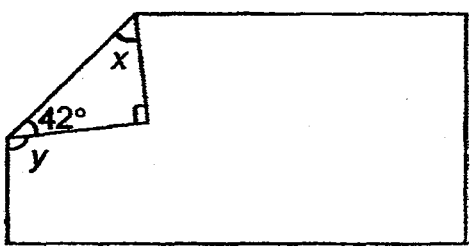
13. Yanti scored a total of 260.5 marks for English, Mathematics and Science. Her English marks were recorded incorrectly as 85. After her marks were amended, the average marks for the 3 subjects increased to 90.
    (a) What was the actual mark for English?
    (b) How many marks must she score for Chinese if she hopes to achieve an average mark of 92 for 4 subjects?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [2]

14. A rectangular piece of paper is folded as shown. Find
    (a) $\angle x$
    (b) $\angle y$



Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

15. Study the pattern in the figure below. It shows the seating arrangement in a restaurant.

Do not write in this space

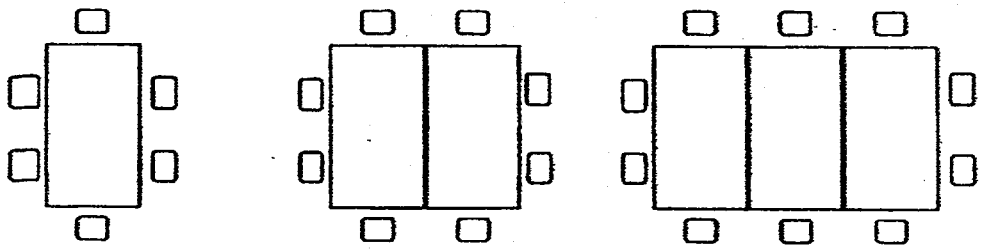


Figure 1 Figure 2 Figure 3

Figure Number	Number of tables	Number of seats
1	1	6
2	2	8
3	3	10
4	4	(a) _____

(a) Find the number of seats needed for Figure 4.
(b) Find the number of seats needed for Figure 20.
(c) Each table measures 2 m by 1.2 m. Find the perimeter of Figure 12.

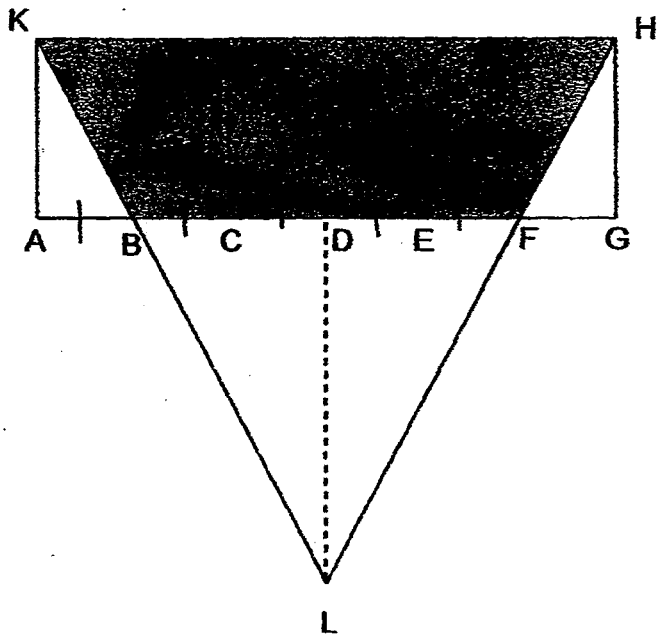
Ans: (a) _____ [1]

(b) _____ [1]

(c) _____ [2]

18. The figure below is made up of 3 identical squares and 1 triangle. LD is twice of AK. AB = BC = CD = DE = EF = FG. The perimeter of rectangle AGHK is 64 cm.

(a) Find the area of the shaded part of the figure.
(b) Find area of Triangle LBF.



Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

16. The ratio of Wei Ling's savings to her brother's savings is 7 : 3. After Wei Ling gave her brother $234 of her savings, the ratio of Wei Ling's savings to her brother's saving is 2 : 3.

(a) What was their total saving?

(b) How much more money did her brother have than Wei Ling in the end?

Do not write in this space

_____ [3]

_____ [2]

(Go on to the next page)

15. Study the pattern in the figure below. It shows the seating arrangement in a restaurant.

Do not write in this space

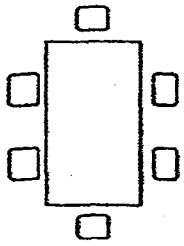


Figure 1

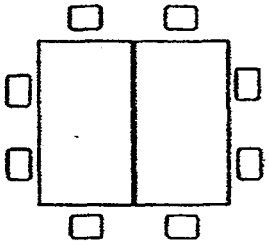


Figure 2

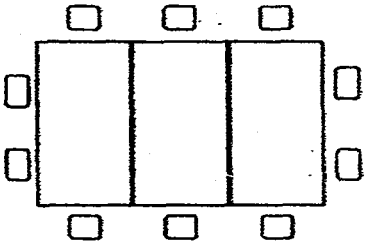


Figure 3

Figure Number	Number of tables	Number of seats
1	1	6
2	2	8
3	3	10
4	4	(a) _____

(a) Find the number of seats needed for Figure 4.
(b) Find the number of seats needed for Figure 20.
(c) Each table measures 2 m by 1.2 m. Find the perimeter of Figure 12.

Ans: (a) _____ [1]

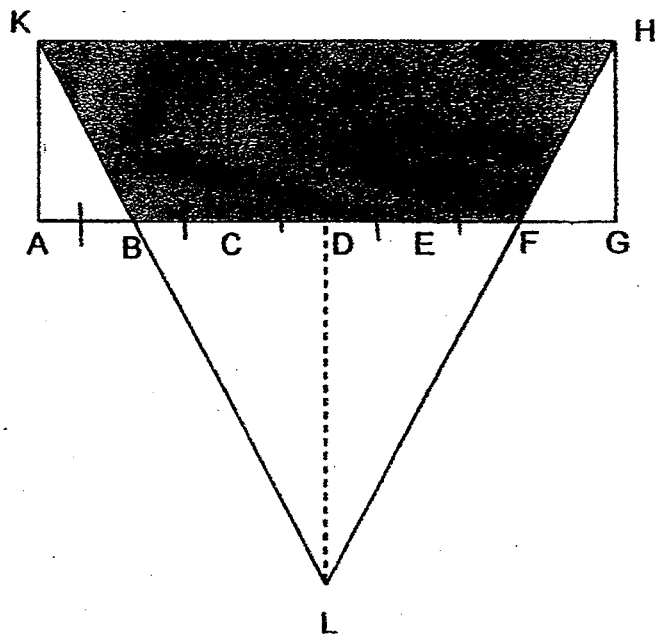
(b) _____ [1]

(c) _____ [2]

(Go on to the next page)

18. The figure below is made up of 3 identical squares and 1 triangle. LD is twice of AK. AB = BC = CD = DE = EF = FG. The perimeter of rectangle AGHK is 64 cm.

(a) Find the area of the shaded part of the figure.
(b) Find area of Triangle LBF.



Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

17. Suresh bought some carrots and potatoes for $154. Each bag of potatoes cost $7 and each bag of carrots cost $5 more. Suresh bought 3 more bags of potatoes than carrots.

(a) How many bags of carrots did Suresh buy?
(b) How much did Suresh pay for the potatoes?

Do not write in this space

Ans: (a) _____ [3]

(b) _____ [2]

(Go on to the next page)

EXAM PAPER 2015
LEVEL : PRIMARY 5
SCHOOL : METHODIST GIRLS' SCHOOL
SUBJECT : MATHEMATICS
TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	**3**	**2**	**2**	**1**	**4**	**3**	**1**	**4**	**3**
Q11	Q12	Q13	Q14	Q15					
2	**4**	**2**	**4**	**2**					

Q16. 87203 Q17. $\frac{2}{15}$ Q18. 3 → 4.08 – 1.08 = 3

Q19. $\frac{1}{10}$, 0.25, $\frac{4}{11}$, 0.4 Q20. 209% → 2.09 x 100% = 209%

Q21. $132 → 880 – 748 = 132

Q22. 5:3
F 290 + 185 +95 + 180 = 750
S : F
1250 : 750
125 : 75
25 : 15
5 : 3

Q23. 9%
Total 750 + 1250 = 2000
$\frac{180}{2000}$ x 100% = 9%

Q24. 30% → G → 120 – 84 = 36, $\frac{36}{120}$ x 100% = 30%

Q25. 65° → $\angle AOD$ → $180 - 25 = 155$, $\angle Y$ → $155 - 90 = 65$

Q26. 378g → 1u x 1ux1u =14g3u x 3u x 3u = $27u^3$, 27 x 14 = 378

Q27. 69° → $\angle CED$ → $180 - 23 - 46 = 111$ $\angle CEF$ → $180 - 111 = 69$

Q28. ¼ → Rect → $\frac{4}{4}$, Shaded → ¼, Unshaded → $\frac{4}{4}$ - ¾ = ¼

Q29. 60°
ABF → 180-90-40=50
DEA → 180 – 110 = 70
DAE → 90-40=50
ADE → 180 – 70 – 50 = 60

Q30. 480
1u → 48
L → 10u
10u → 48 x 10 = 480

Q1. 52 → 9u → 117, 1u → 117 ÷ 9 = 13, T → 4u, 4u → 13 x 4 = 52

Q2. 375g
M → ½ x ¾ = ⅜
⅜kg = 375g

Q3. $400
R → 630 – 70 = 560
C → $\frac{2}{7}$ x 560 = 160
Left → 560 – 160 = 400

Q4. 78°
(180 – 36) ÷ 2 = 72
RPS → 96 -72=24
PRS → (180 – 24) ÷ 2 = 78

Q5a. 175cm³ → 7cm x 5cm x 5cm = 175cm³

Q5b. 134 → No. of cubes → 25 + 7 + 5 + 2 + 2 = 41, difference → 175 – 41 = 134

Q6a. 8
Total → 38 x 3 = 114
6A → 9+21+8=38
6C → 24 + 13 = 37
38 + 37 =75
6B → 114 – 75 =39
L → 39 – (12+19) = 8

Q6b. 7 9 + 12 = 21, 21÷3=7

Q7. 1 litre 80ml
⅖ x 30cm x 12cm x 15cm = 3240cm³
3 minutes → 3240cm³
1 minute → 3240cm³ ÷ 3 = 1080cm³
1080cm³ = 1 litre 80ml

Q8. 30
G:R:B
5:10:12
12u → 72, 1u 72÷12=6, G10u ÷2u =5u, 5u 6 x 5 = 30

Q9a. $3.15
$\frac{7}{100}$ x 45 = 3.15

Q9b. $16.05
Total➔ 45 + 3.15=48.15
48.15 ÷ 3 = 16.05

Q10. 138cm^2
∠ of rect. ➔108 ÷ 9 = 12
Area of rect. ➔9 x 12 = 108
Area of Δ = ½ x 5 x 12 = 30
Total area 108 +30=138

Q11a. 30
G ➔$\frac{12}{12} - \frac{7}{12} = \frac{5}{12}$
$\frac{5}{12}$ x 72 = 30

Q11b. 12
G : B
1:2 (3u)
3u➔ 756
1u ➔756 ÷3=252
B➔ 2u
2u➔ 252 x 2 = 504
No. B ➔$\frac{7}{12}$ x 72 = 42
504÷42=12

Q12. 8%
A ➔114+36 = 150
$\frac{.12}{150}$ x 100% = 8%

Q13a. 94.5
90 x 3 = 270
270 – 260.5 = 9.5
85 + 9.5=94.5

Q13b. 98
92 x 4 = 368
368 – 270 = 98

Q14a. 48° ➔∠X 180-90-42=48

Q14b. 96° ➔$\angle Y$ 180 − 42 − 42 = 96

Q15a. 12➔ 4+8=12

Q15b. 44
F5➔ 12+2=14, F6 ➔14+2=16, F7 ➔16+2=18, F8 ➔18+2=20, F9 20+2=22, F10➔22+2=24 F11➔ 24+2=26, F12➔ 26+2=28, F13➔ 28+2=30, F14➔ 30+2=32, F15➔ 32+2=34, 2 x 5=10, F20➔34+10=44

Q15c. 32.8m 12 x 2 = 24, 24 x 1.2=28.8, 28.8+4=32.8

Q16a. $780
21u-6u=15u
15u ➔702+468=1170
1u➔ 1170÷15=78
W➔ 78x 7 = 546
B➔ 78 x 3 = 234
546 +234=780

Q16b. $156
B W:B,
A W:B
2:3, 4:6(10u)
7-4=3
234÷3=78
6-4=2
78 x 2 = 156

Q17a. 7 ➔C➔ 7+5=12 , 7x3=21, 154-21=133, 12+7=19, 133÷19=7

Q17b. $70 ➔7+3=10, 10 x 7 = 70

Q18a. 160cm^2
3+1+1+3=8
8u➔ 64
1u➔ 64÷8=8
Total 24 x 8 = 192
8÷2=4
½ x 4 x 8 = 16
16 x 2 = 32
192 – 32=160

Q18b. 128cm^2
4 x 4 = 16
8 x 2 = 16
½ x 16 x 16 = 128

THE END