METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR EXAMINATION 2019
PRIMARY 5
MATHEMATICS

PAPER 1
(BOOKLET A)

Total Time for Booklets A and B : 1 hour

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 : 16 May 2019

Parent's Signature : _____

This booklet consists of 7 printed pages including this page.

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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 The value of the digit 5 in 650 841 is _____.

(1) 50
(2) 500
(3) 5000
(4) 50 000

2 Find the value of $4 + 5 \times (60 - 30) \div 10$.

(1) 19
(2) 27
(3) 301
(4) 537

3 A number becomes 60 000 when rounded to the nearest thousand.
Which one of the following could be the number?

(1) 59 187
(2) 59 783
(3) 60 978
(4) 61 054

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4 Which one of the following is **not** the same as $\frac{4}{9}$?

(1) $4 \div 9$

(2) $\frac{1}{2} \times \frac{8}{9}$

(3) $9 \div 4$

(4) $4 \times \frac{1}{9}$

5 Express $5\frac{3}{7}$ as a decimal correct to 2 decimal places.

(1) 0.37

(2) 5.37

(3) 5.42

(4) 5.43

6 Express $\frac{27}{36}$ in the simplest form.

(1) $\frac{3}{4}$

(2) $\frac{12}{16}$

(3) $\frac{15}{20}$

(4) $\frac{18}{24}$

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7 What is the difference between $7\frac{1}{2}$ and $2\frac{3}{4}$?

(1) $4\frac{3}{4}$

(2) $5\frac{1}{4}$

(3) $5\frac{3}{4}$

(4) $10\frac{1}{4}$

8 $\square - \frac{5}{6} = 2\frac{1}{4}$

What is the missing fraction in the box?

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

(2) $1\frac{5}{12}$

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

(4) $3\frac{1}{12}$

9 Which one of the following is the same as $3 \times \frac{2}{7}$?

(1) $3 \times 2 \times 7$

(2) $3 \times 2 \times \frac{1}{7}$

(3) $\frac{2}{7} \times \frac{2}{7} \times \frac{2}{7}$

(4) $3 \times \frac{2}{7} \times \frac{1}{7}$

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10 $18 : 27 = 8 : \square$

What is the missing number in the box?

(1) 17
(2) 2
(3) 3
(4) 12

11 Ravi and Paul were given a sum of $56. Ravi received $32. What was the ratio of Ravi's share to Paul's share?

(1) 3 : 4
(2) 4 : 7
(3) 4 : 3
(4) 7 : 4

12 Cindy bought some cupcakes from a shop. For every 10 cupcakes that Cindy paid, she received another 2 cupcakes free. Cindy had a total of 240 cupcakes from the shop in the end. How many free cupcakes did Cindy receive?

(1) 20
(2) 24
(3) 40
(4) 48



2 free cupcakes for every 10 cupcakes bought

(Go on to the next page)

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13 The ratio of Henry's age to his uncle's age is 3 : 5.
Henry is 30 years younger than his uncle. How old is Henry's uncle?

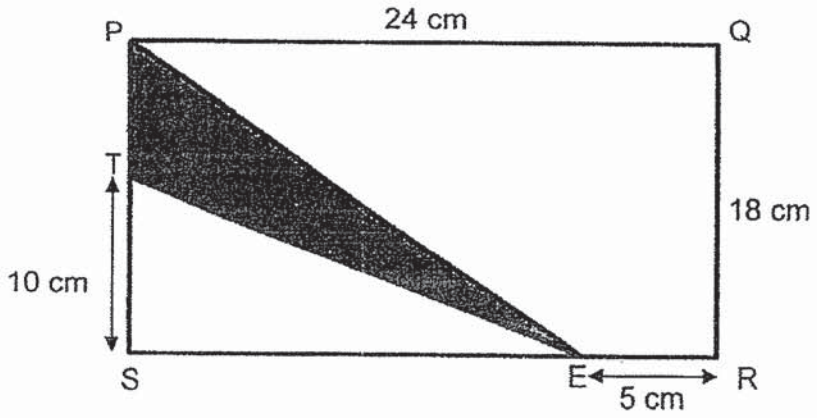
(1) 18 years old
(2) 45 years old
(3) 48 years old
(4) 75 years old

14 Mrs Lim had some money. She used $\frac{1}{5}$ of it to buy a skirt and $\frac{2}{3}$ of the remaining money to buy a bag. What fraction of the money had she left?

(1) $\frac{2}{15}$
(2) $\frac{4}{15}$
(3) $\frac{7}{15}$
(4) $\frac{8}{15}$

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15 In the figure below, PQRS is a rectangle and PET is a triangle.
Find the area of the shaded triangle.



(1) 76 cm²
(2) 95 cm²
(3) 96 cm²
(4) 171 cm²

(Go on to Booklet B)

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METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR EXAMINATION 2019
PRIMARY 5
MATHEMATICS

PAPER 1
(BOOKLET B)

Total Time for Booklets A and B : 1 hour

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: 16 May 2019

Paper 1 Booklet A	**/ 20**
Paper 1 Booklet B	**/ 25**
Paper 2	**/ 55**
TOTAL	**/ 100**

Parent's Signature : _____

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Questions **16** to **20** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

Do not write in this space

16 Write two million, fifty-three thousand and seventeen in figures.

Ans: _____

17 Find the value of 350×6000.

Ans: _____

18 $\frac{6}{25} \times \frac{5}{9} = \square$

What is the missing fraction in the box? Give your answer in the simplest form.

Ans: _____

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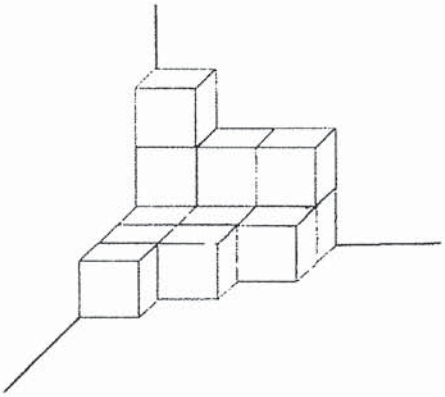
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Do not write in this space

19 A dining table has a mass of 31 kg. It is 6 times as heavy as a chair. What is the mass of the chair in kilograms?

Ans: _____ kg

20 The solid shown below is made up of identical 1-cm cubes. The cubes are stacked up on top of one another. What is the volume of the solid?



Ans: _____ cm^3

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Questions **21** 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. (20 marks)

21 A rectangle measures $\frac{12}{5}$ m by $\frac{8}{9}$ m.

What is the area of the rectangle? Give your answer as a mixed number in the simplest form.

Ans: _____ m^2

22 Mr Loh participated in a 10-km marathon. He ran $4\frac{2}{3}$ km for the first part of the race. What is the distance he would have to run to complete the marathon?

Ans: _____ km

23 There are 1632 pupils in Harmony Primary School. $\frac{3}{8}$ of them are boys. $\frac{1}{6}$ of the girls wear spectacles. How many girls wear spectacles?

Ans: _____

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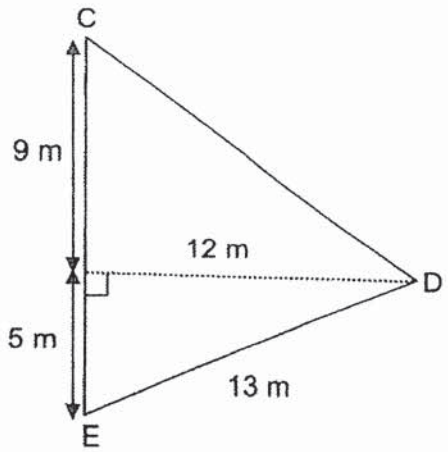
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24 Ali bought $2\frac{3}{4}$ m of ribbon. A metre of ribbon cost \$8.

How much did he pay for the ribbon?

Ans: \$ _____

25 What is the area of triangle CDE as shown in the figure?



Ans: _____ m^2

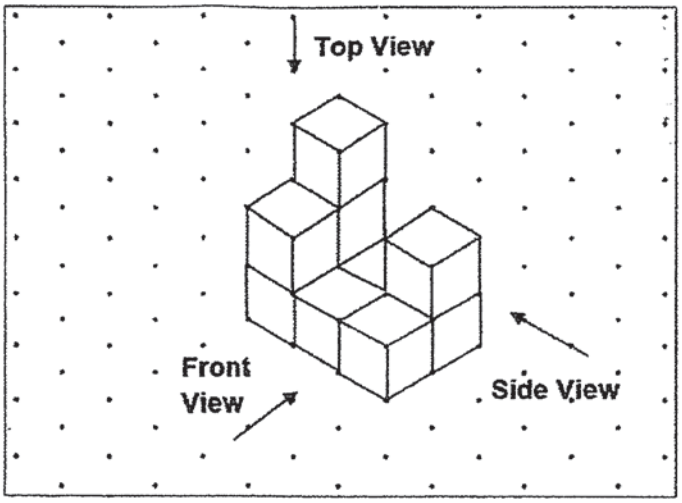
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26 The solid below is made up of **10 unit cubes** which are glued together as shown below.

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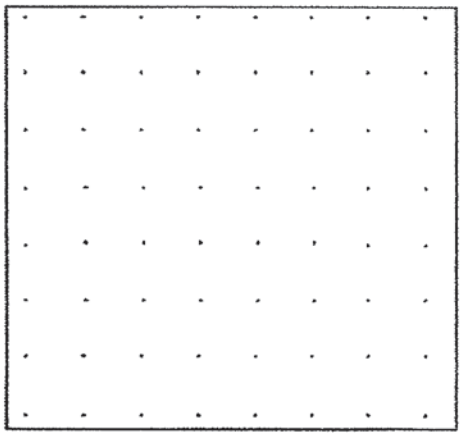


Draw:

(a) the top view (seen from the front) of the solid

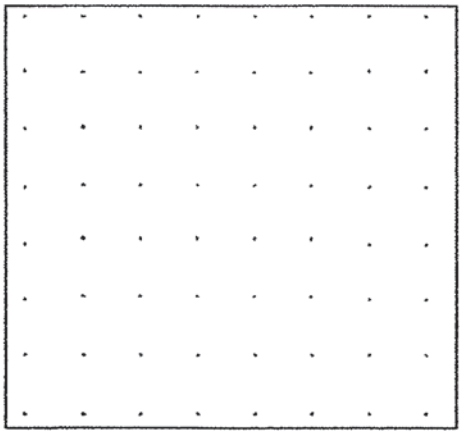
(b) the front view of the solid.

(a)



Top View

(b)



Front View

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27 After spending $24 on a storybook and $12 on some pens, Samad had $4 left. Find the ratio of the total amount of money Samad spent on the two items to the amount of money he had left. Give your answer in its simplest form.

Do not write in this space

Ans: _____

28 Gerald used blue and yellow balloons to decorate a hall. The ratio of the number of blue balloons to the number of yellow balloons was 5 : 7. He used 156 balloons altogether. How many more yellow balloons than blue balloons did Gerald use?

Ans: _____

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29 At a fruit stall, oranges are sold in packs of four and apples are sold in packs of three. The cost of a pack of oranges is the same as the cost of a pack of apples. Mrs Lee paid $24 for 12 such apples. What was the cost of a pack of oranges?

Do not write in this space

Ans: $_____

30. A pail weighs 9 kg when it is filled with Liquid X. The same pail weighs 15 kg when it is filled with Liquid Y. Liquid Y is twice as heavy as Liquid X. What is the mass of the pail when it is empty?

Ans: _____kg

End of Booklet B

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METHODIST GIRLS' SCHOOL (PRIMARY)

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MID-YEAR EXAMINATION 2019
PRIMARY 5
MATHEMATICS

PAPER 2

Duration: 1h 30 min

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: 16 May 2019

/55

Parent's Signature: _____

This booklet consists of **13** printed pages including this page.

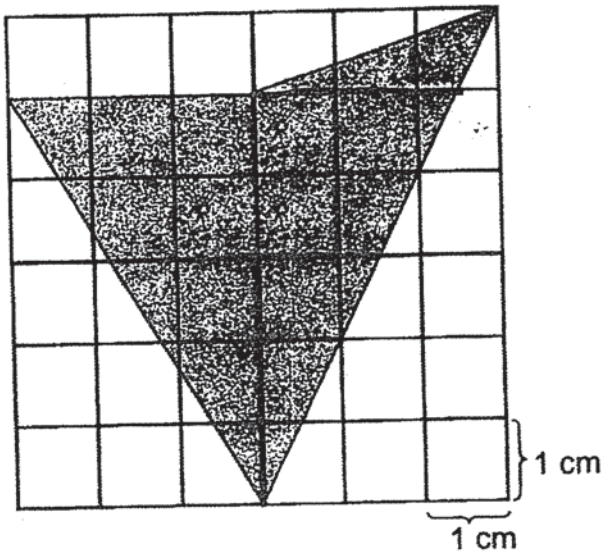
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Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

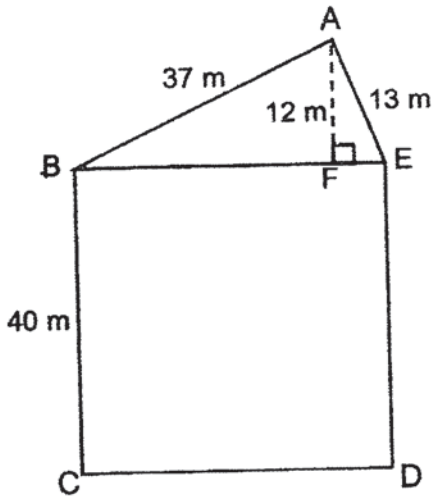
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1 Find the area of the shaded figure.



Ans: _____ cm^2

2 Figure ABCDE is made up of a square and a triangle. The square has a side of 40 m. AB = 37 m, AE = 13 m and AF = 12 m. What is the area of Figure ABCDE?



Ans: _____ m^2

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3 There are 235 pupils in Room A and 567 pupils in Room B. A teacher transferred some pupils from Room B to Room A so that both rooms have the same number of pupils. How many pupils were there in each room after the transfer?

Ans:_____

4 Janice is 11 years old. Janice's sister is 5 years older than her. In how many years' time will their total age be 35 years old?

Ans: _____

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Do not write in this space

5 $A \times \frac{5}{6} = B$

B is an improper fraction greater than 1.

Each statement below is either true, false or not possible to tell from the information given. For each statement, please put a tick (✓) in the correct column.

Statement	True	False	Not Possible To Tell
A is a proper fraction			
B is smaller than A.			

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For questions **6** to **17**, 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. (45 marks)

Do not write in this space

6 Ravi has some marbles. If he gives 7 marbles to each of his friends, he will have 4 marbles left. If he gives each of his friends 9 marbles, he will need another 2 more marbles. How many marbles does he have?

Ans: _____ [3]

7 Siti, Mary and Jay had some stickers. Siti had 3 times as many stickers as Jay. Siti had 22 more stickers than Mary. Mary and Jay had 58 stickers altogether. How many stickers did Siti have?

Ans: _____ [3]

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Do not write in this space

8 There are 3 boxes of books. There are 4 times as many books in Box B as in Box A. There are 138 more books in Box C than in Box B. The number of books in Box A is $\frac{1}{12}$ of the total number of books in the 3 boxes. How many books are there in Box C?

Ans: _____ [3]

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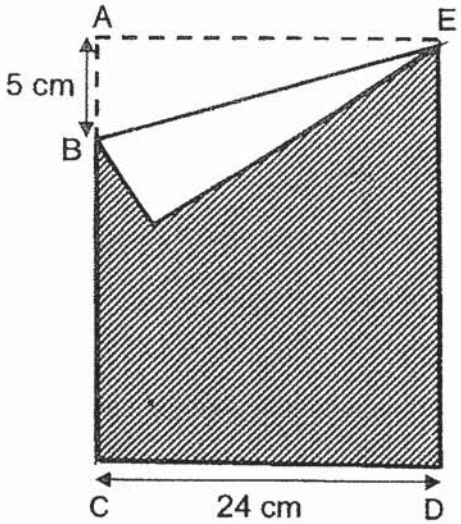
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Do not write in this space

9 Anna, Bernice and Cindy shared some stickers in the ratio 5: 4: 7. Anna and Bernice had 81 stickers altogether. How many stickers did the three girls share altogether?

Ans: _____ [3]

10 The figure below shows a rectangular piece of paper ACDE with an area of 744 cm^2. It is folded along EB. What is the area of the shaded figure?



Ans: _____ [3]

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11 Tom and Zac each had an equal amount of money. Every day, Tom spent $16 and Zac spent $28. When Zac had used up all his money, Tom still had $240 left. How much money did each of them have at first?

Ans: _____ [4]

12 Priscilla bought some files and erasers for $16. She bought 6 more erasers than files. A file costs 80 cents and an eraser cost 50 cents.

(a) How many files did Priscilla buy?

(b) How much did Priscilla pay for the erasers?

Ans: (a) _____ [2]

(b) _____ [2]

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13 Mrs Lim bought 10 ℓ of milk. She drank $\frac{5}{8}$ ℓ of it. She used $\frac{1}{3}$ of the remaining milk to make yoghurt.

(a) How much milk was left after Mrs Lim drank some of it?

(b) How much milk was left in the end?

Give your answers in the simplest form.

Ans: (a)_____ [2]

(b)_____ [2]

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14 Mrs Chong had some flour. She used $\frac{1}{5}$ of it to bake a cake and $\frac{2}{7}$ of it to make a pizza. She then gave her neighbour 950 g of flour. She was left with 850 g of flour. How much flour did Mrs Chong use to make a pizza? Give your answer in kilograms.

Ans: _____ [4]

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15 There were some spectators watching a tennis match.

$\frac{3}{4}$ of them were men and women. $\frac{5}{6}$ of them were men and children. 63 spectators were men.

(a) What fraction of the spectators were men ?

(b) How many spectators were there at the tennis match?

Ans: (a) _____ [2]

(b) _____ [2]

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16 Zen spent $255 on a bag and a belt. She wanted to buy another similar bag with the remaining money but was short of $30. In the end, she bought another similar belt and had $15 left in the end.

(a) How much more did the bag cost than the belt?

(b) How much did the belt cost?

Ans: (a) _____ [2]

(b) _____ [3]

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17 A tailor spent $\frac{5}{9}$ of her money to buy 90 red buttons. She spent $\frac{7}{12}$ of the remaining money to buy blue buttons. She had $150 left. A red button cost twice as much as a blue button.

(a) What was the cost of the red buttons?

(b) What was the cost of one blue button?

Ans: (a) _____ [3]

(b) _____ [2]

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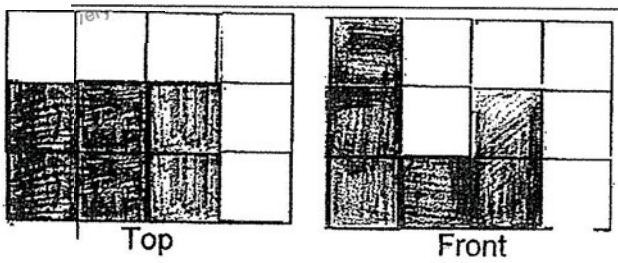
ANSWER KEY

YEAR : 2019
LEVEL : PRIMARY 5
SCHOOL : METHODIST GIRLS' SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM : SA1

PAPER ONE : BOOKLET A

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

PAPER ONE : BOOKLET B

Q16	2 053 017
Q17	2 100 000
Q18	$\frac{2}{15}$
Q19	$5\frac{1}{6}kg$
Q20	$13cm^3$
Q21	$\frac{12}{5}\times\frac{8}{9}=\frac{96}{45}=2\frac{2}{15}m^2$
Q22	$5\frac{1}{3}km$
Q23	$1-\frac{3}{8}=\frac{5}{8}$ $1632 \times \frac{5}{8} \times \frac{1}{6} = 170$girls
Q24	$2\frac{3}{4}=\frac{11}{4}$ $\frac{11}{4} \times \$8 = \$22$
Q25	$?\times(9+5) = 84m^2$
Q26	 Top Front
Q27	24 + 12 : 4 36 : 4 Ans : 9 : 1

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Q28	B : Y : T → 5 : 7 : 12 12u → 156 1u → 156 ÷ 12 = 13 7u – 5u = 2u → 13 x 2 =26
Q29	12 ÷ 3 = 4 $24 ÷ 4 = $6
Q30	<table><tr><td>X</td><td>Pail</td><td>1u</td><td></td></tr><tr><td>Y</td><td>Pail</td><td>1u</td><td>1u</td></tr></table> 1u = 15 – 9 = 6 Pail = 9 – 6 = 3kg

PAPER B:

Q1	$\left[\frac{1}{2}\times5\times3\right]\times2 = 15cm^2$
Q2	Area of BCDE = 40 x 40 = 1600m² Area of <ABR = $\frac{1}{2}$ x 40 x 12 = 240m² Total area = 1600 + 240 = 1840m²
Q3	Total pupils → 235 + 567 = 802 Equally transfer → 802 ÷ 2 = 401pupils
Q4	Total age now → 11 + 11 + 5 = 27 Total diff → 35 – 27 = 8 Time to reach total 35 → 8 ÷ 2 =4
Q5	i) False ii) True
Q6	Multiple of 7 → 7 14 21 28 35 +4 → 11 18 {25} 32 39 Multiple of 9 → 9 18 27 36 45 -2 → 7 16 {25} 34 43 Ans : 25
Q7	Mary + 22 + Jay = Siti + Jay 58 + 22 = Siti + Jay Siti & Jay → 80 → 4u 1u = 80 ÷ 4 = 20 3u = 20 x 3 = 60

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Q8

A					
B					
C					138

Total 12 unit

12u – 9u = 138

3u = 138

1u = 138 ÷ 3 = 46

4u + 138 = 4 x 46 + 138

= 322 books

Q9

A : B : C : T → 5 : 4 : 7 : 16

9u → 81

1u → 81 ÷ 9 = 9

16u → 9 x 16 = 144

Q10

$\left[\frac{1}{2}\times5\times24\right]\times2=120$

744 – 120 = 624cm²

Q11

28 – 16 = 12

240 ÷ 12 = 20

28 x 20 = $560

Q12

$0.80 + $0.50 = $1.30

6 x $0.50 = $3

$16.00 - $3.00 = $13.00

$13.00 ÷ $1.30 = 10 sets

Ans (a) → 10 files

10 + 6 = 16

16 x $0.50 = $8

Ans (b) → $8

Q13

(a) $10 - \frac{5}{8} = 9\frac{3}{8}$L

$9\frac{3}{8} \times \frac{2}{3} = \frac{75}{8} \times \frac{2}{3} = \frac{25}{4} = 6\frac{1}{4}$L

Q14

$\frac{2}{5}+\frac{2}{7}=\frac{7}{35}+\frac{10}{35}=\frac{17}{35}$

$1-\frac{17}{35}=\frac{18}{35}$

18u → 950 + 850 = 1800g

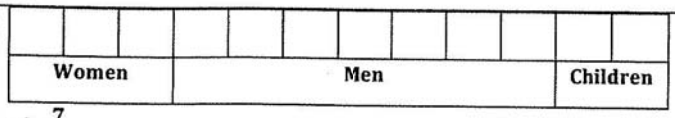
10u → 1800 ÷ 18 x 10 = 1000g

1000g = 1kg

Answer : 1kg

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Q15	 **a)** $\frac{7}{12}$ **b) 1u → 63 ÷ 7 = 9** **9 x 12 = 108**
Q16	**(a) Diff bag and belt → $30 + $15 = $45** **(b) $255 – $45 = $210** **1 Belt → $210 ÷ 2 = $105**
Q17	**Red : Blue : Money → 15 : 7 : 5** **5u → $150** **1u → $150 ÷ 3 = $50** **15u → $50 x 15 = $450** **Ans (a) → $450** **$450 ÷ 90 = $5.00** **Ans (b) → $5.00 ÷ 2 = $2.50**

4
2 N D

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