Methodist Girls' School (Primary)
Primary 5 Mathematics
Weighted Assessment 2 2021

Name: _____ ( ) **Date:** _____

Class: Primary 5. _____ **Marks:** 30

Parent's Signature: _____

Section A
Questions 1 to 2 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). Write your answer in the brackets provided.

(4 marks)

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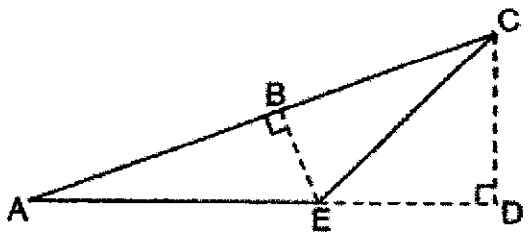
1 What is the missing number in the box?

$\frac{4}{5} \times 13 = \frac{4}{5} \times 7 + \frac{4}{5} + \frac{4}{5} + \frac{4}{5} + \frac{4}{5} \times \square$

(1) 6
(2) 5
(3) 3
(4) 4

( )

2 Given that AE is the base of Triangle ACE, its corresponding height to calculate area of Triangle ACE is _____.



(1) CE
(2) BE
(3) ED
(4) CD

( )

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Do not write in this space

Section B

Questions 3 to 5 carry 2 marks each.

Write your answers in the spaces provided. For questions which require units, give your answers in the units stated (6 marks)

3 There are blue, green and red marbles in a box.
The ratio of the number of blue marbles to green marbles is 4 : 5.
The ratio of the number of red marbles to the total number of blue and green marbles is 5 : 6.
What fraction of the marbles in the box are green marbles?

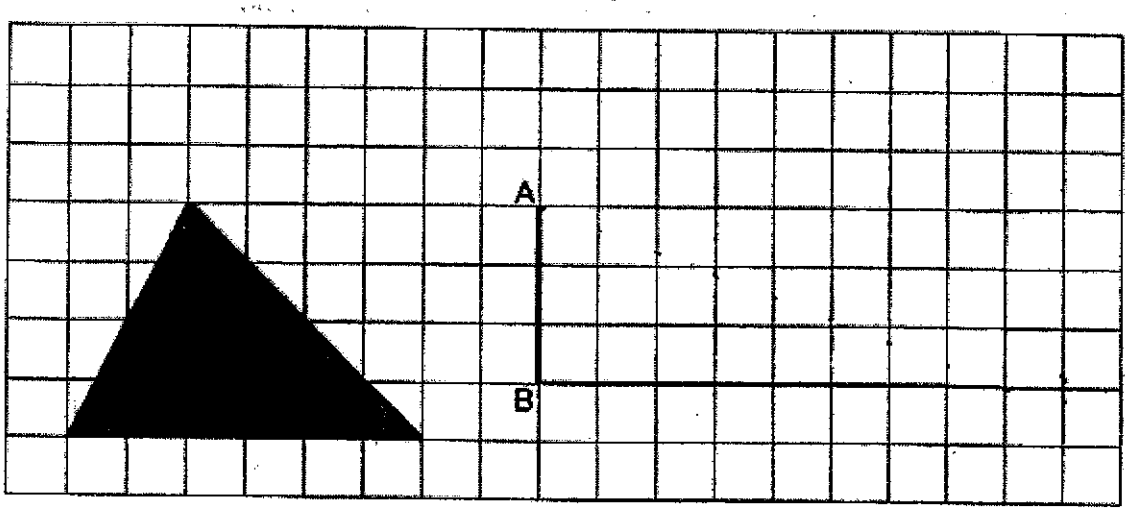
Ans: _____

4 Kevin baked some pies. He sold $\frac{1}{3}$ of the pies in the morning. He sold $\frac{1}{4}$ of the remainder in the afternoon. He had 156 pies left. How many pies did Kevin bake?

Ans: _____

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5 The figure shows Triangle X in a square grid. Draw and label Triangle ABC such that it has the same area as Triangle X with base AB.



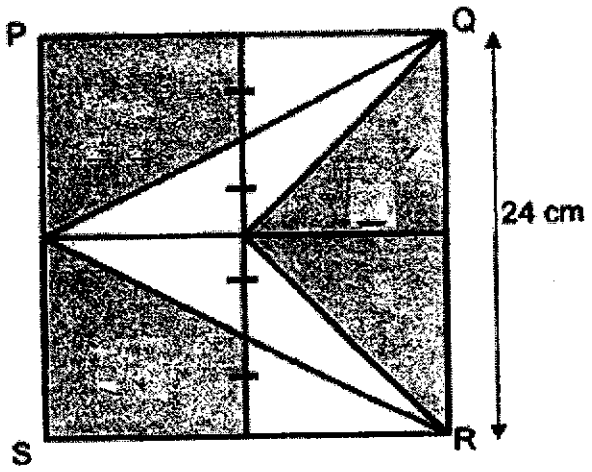
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Section C

For questions **6 to 10**, 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. **(20 marks)**

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6 PQRS is a square of sides 24 cm. It is made of 4 identical smaller squares. Find the area of the shaded part of PQRS.



Ans: _____ [3]

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7 Janesh had some money. He spent \$1450 on a laptop and $\frac{3}{7}$ of the remainder on a camera. He still had $\frac{1}{3}$ of his money left.

(a) How much money did he have at first?

(b) How much money did he spend altogether?

Ans: (a) _____ [2]

(b) _____ [2]

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8 The ratio of the number of Kelly's stamps to the number of Jamie's stamps was 4 : 9. After Kelly bought another 15 stamps, Jamie still had 45 more stamps than Kelly. How many stamps did Kelly have in the end?

Ans: _____ [4]

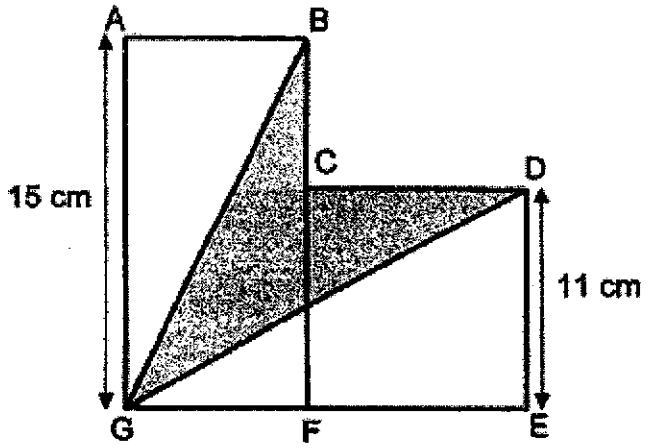
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9 The figure below is made up of a rectangle and a square.

The length of the rectangle ABFG is 15 cm. Its breadth is $\frac{2}{5}$ of its length.

CDEF is a square of sides 11 cm.

Find the area of the shaded part.



Ans: _____ [4]

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10 Sumei and Aqil had a total of $525. After Sumei spent $\frac{2}{5}$ of her money and Aqil spent $105, the ratio of the amount of money Sumei had left to the amount of money Aqil had left became 1 : 3.

What was the ratio of Aqil's money to Sumei's money at first?

Give your answer in the simplest form.

Ans: _____ [5]

END OF PAPER

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SCHOOL : METHODIST GIRLS PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2021 WA2

Q 1	Q2
3	4

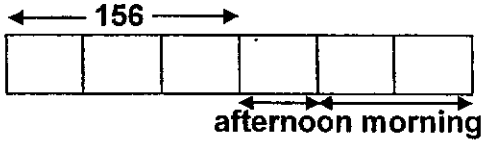
Q3)

B : G: B + 6
4 : 5 : 9 x2
8 : 10 : 18

R : B + G
5 : 6 x3
15: 18

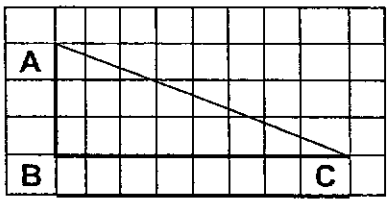
$\frac{10}{18+15} = \frac{10}{33}$

Q4)



3U = 156
1U = 156 ÷ 3
= 52
6U = 52 x 6
= 312

Q5)



Q6)

Area of shaded triangle = $\frac{1}{2}$ x 24 x 24
= 144cm²

Area of both quadrilateral = 12 x 12 - $\frac{1}{2}$ x 6 x 12
= 144 – 36

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$= 108cm^2$

Area of shaded parts $= 144 + 108 + 108cm^2$
$= 360\ cm^2$

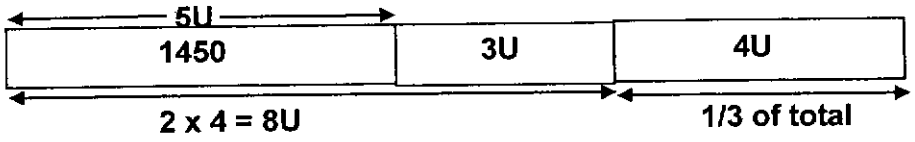
Alternative:

Fraction of figure that is unshaded $= \frac{1\frac{1}{2}}{4} = \frac{3}{8}$

Fraction of figure that is shaded $= 1 - \frac{3}{8}$
$= \frac{5}{8}$

Area of shaded parts $= \frac{5}{8} \times 24 \times 24$
$= \frac{5}{8} \times 576$
$= 360cm^2$

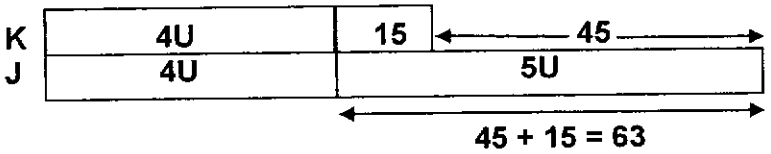
Q7)



a) 5U = 1450
1U = 1450 ÷ 5
= 290
12U = 290 x 12
= 3480
He had $3480 at first.

b) 1U = 290
8U = 290 x 8
= 2320
He spent $2320.

Q8)



5U = 15 + 14
= 60
1U = 60 ÷ 5
= 12
4U = 12 x 4
= 48
No. of stamps Kelly has = 48 + 15
63

Q9)

Breadth of ABFG $= 15 \times \frac{2}{5}$
$= 6cm$

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	Area of GAB = $\frac{1}{2}$ x 15 x 6 = 45cm^2 Area of GDE = $\frac{1}{2}$ x 17 x 11 = 93.5cm^2 Area of ABGF = 15 x 6 = 90 Area of CDFE = 11 x 11 = 121 Area of shaded part = (121 + 90) – 45 – 93.5 = 72.5cm^2
Q10)	Sumei Aqil  5U + 9U = 525 – 105 14U = 420 1U = 420 ÷ 14 = 30 Amount of money Susan had = 5 x 30 = $150 Amount of money Aqil had = 9 x 30 + 105 = $375 A : S 375 : 150 5 : 2

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