

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

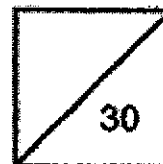
Name: _____ ()

Date: _____

Class: Primary 5. _____

Marks: _____

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)

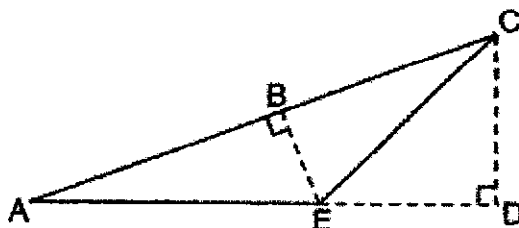
- 1 What is the missing number in the box?

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

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

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- 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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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: _____

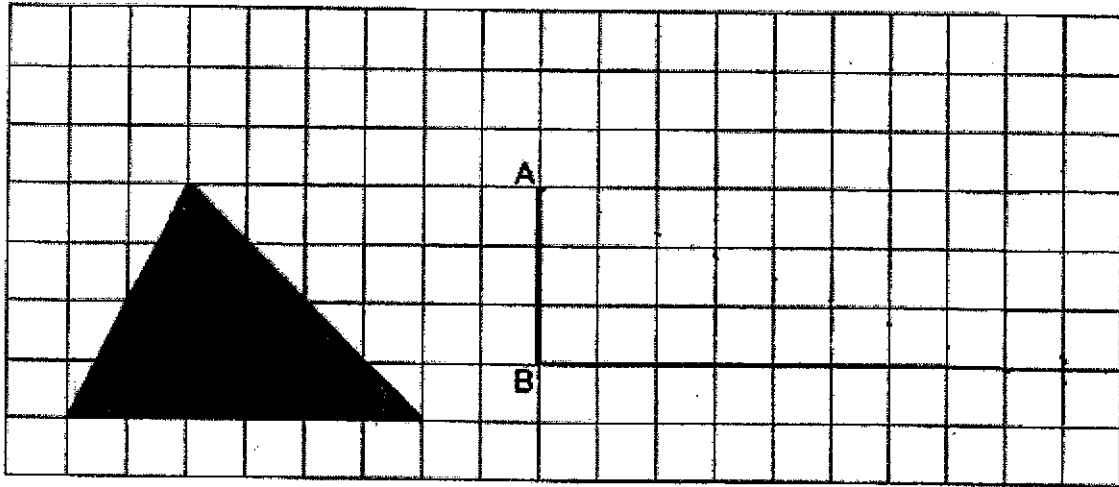
- 4 Kevin baked some pies. He sold $\frac{1}{3}$ of the pies in the morning. He sold $\frac{1}{4}$ of the remainder in the afternoon. He had 156 pies left. How many pies did Kevin bake?

Ans: _____

Do not write
in this space



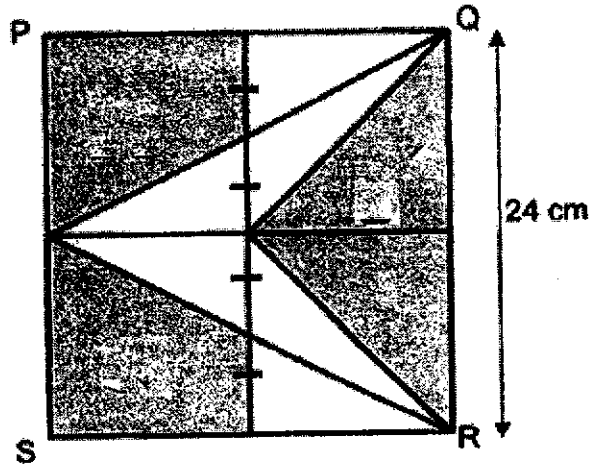
- 5 The figure shows Triangle X in a square grid. Draw and label Triangle ABC such that it has the same area as Triangle X with base AB.



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)

- 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]

- 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]

- 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?

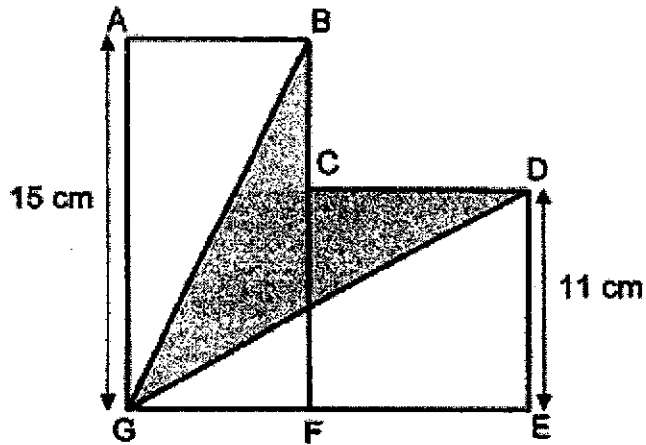
Ans: _____ [4]

- 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]

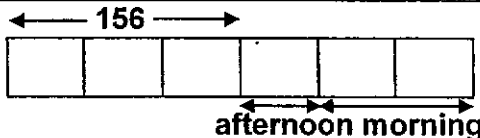
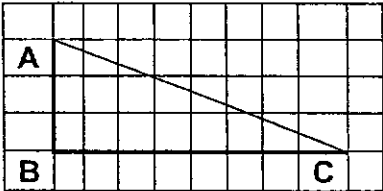
- 10 Sumei and Aqil had a total of \$525. After Sumei spent $\frac{2}{5}$ of her money and Aqil spent \$105, the ratio of the amount of money Sumei had left to the amount of money Aqil had left became 1 : 3.
What was the ratio of Aqil's money to Sumei's money at first?
Give your answer in the simplest form.

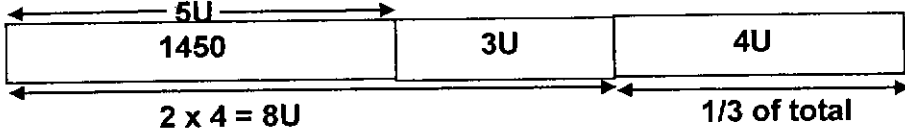
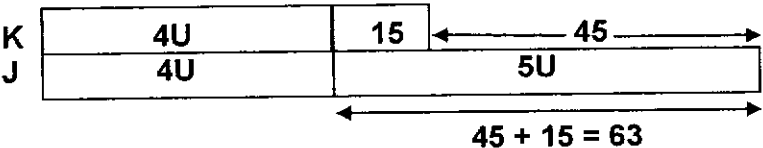
Ans: _____ [5]

END OF PAPER

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

Q 1	Q2
3	4

Q3)	$B : G : B + 6$ $4 : 5 : 9 \xrightarrow{\times 2}$ $8 : 10 : 18$ $R : B + G$ $5 : 6 \xrightarrow{\times 3}$ $15 : 18$ $\frac{10}{18+15} = \frac{10}{33}$
Q4)	 $3U = 156$ $1U = 156 \div 3$ $= 52$ $6U = 52 \times 6$ $= 312$
Q5)	
Q6)	Area of shaded triangle $= \frac{1}{2} \times 24 \times 24$ $= 144\text{cm}^2$ Area of both quadrilateral $= 12 \times 12 - \frac{1}{2} \times 6 \times 12$ $= 144 - 36$

	$= 108\text{cm}^2$ Area of shaded parts = $144 + 108 + 108\text{cm}^2$ $= 360\text{cm}^2$ <u>Alternative:</u> Fraction of figure that is unshaded = $\frac{1\frac{1}{2}}{\frac{4}{3}} = \frac{3}{8}$ Fraction of figure that is shaded = $1 - \frac{3}{8}$ $= \frac{5}{8}$ Area of shaded parts = $\frac{5}{8} \times 24 \times 24$ $= \frac{5}{8} \times 576$ $= 360\text{cm}^2$
Q7)	 a) $5U = 1450$ $1U = 1450 \div 5$ $= 290$ $12U = 290 \times 12$ $= 3480$ He had \$3480 at first. b) $1U = 290$ $8U = 290 \times 8$ $= 2320$ He spent \$2320.
Q8)	 $5U = 15 + 14$ $= 60$ $1U = 60 \div 5$ $= 12$ $4U = 12 \times 4$ $= 48$ No. of stamps Kelly has = $48 + 15$ 63
Q9)	Breadth of ABFG = $15 \times \frac{2}{5}$ $= 6\text{cm}$

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

