

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

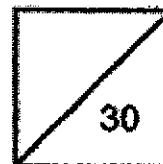
Name: \_\_\_\_\_ (      )

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)

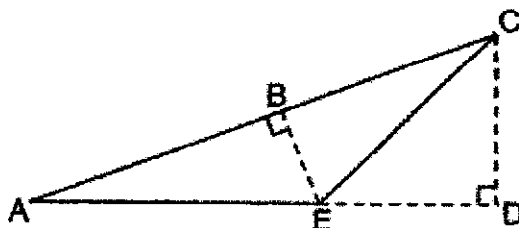
- 1 What is the missing number in the box?

$$\frac{4}{5} \times 13 = \frac{4}{5} \times 7 + \frac{4}{5} + \frac{4}{5} + \frac{4}{5} + \frac{4}{5} \times \boxed{\phantom{00}}$$

- (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

(      )

**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)

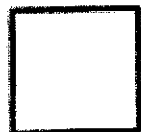
- 3 There are blue, green and red marbles in a box.  
The ratio of the number of blue marbles to green marbles is 4 : 5.  
The ratio of the number of red marbles to the total number of blue and green marbles is 5 : 6.  
What fraction of the marbles in the box are green marbles?

Ans: \_\_\_\_\_

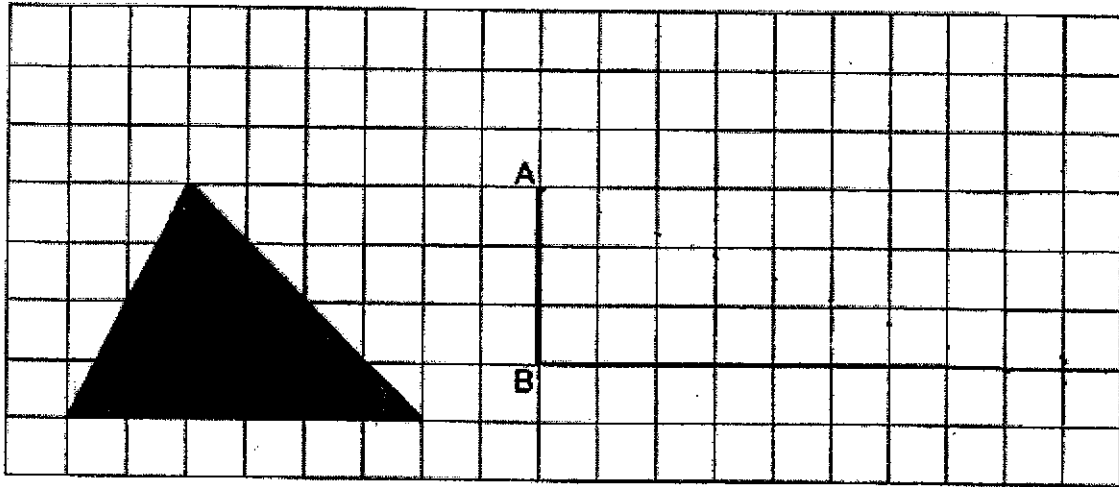
- 4 Kevin baked some pies. He sold  $\frac{1}{3}$  of the pies in the morning. He sold  $\frac{1}{4}$  of the remainder in the afternoon. He had 156 pies left. How many pies did Kevin bake?

Ans: \_\_\_\_\_

Do not write  
in this space



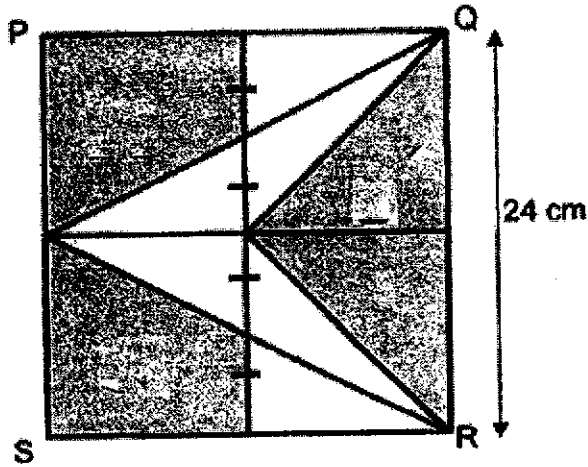
- 5 The figure shows Triangle X in a square grid. Draw and label Triangle ABC such that it has the same area as Triangle X with base AB.



**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]



- 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]

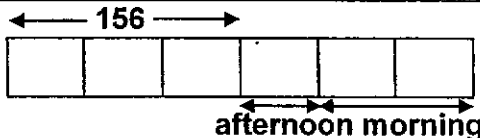
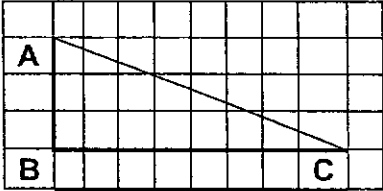
END OF PAPER

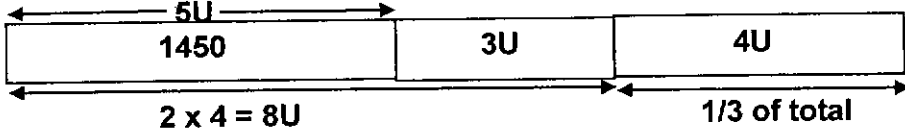
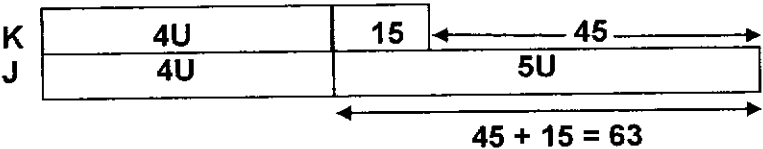



SCHOOL : METHODIST GIRLS PRIMARY SCHOOL  
 LEVEL : PRIMARY 5  
 SUBJECT : MATH  
 TERM : 2021 WA2

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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)	 <p> <math>3U = 156</math>  <math>1U = 156 \div 3</math>  <math>= 52</math>  <math>6U = 52 \times 6</math>  <math>= 312</math> </p>
Q5)	
Q6)	<p>Area of shaded triangle <math>= \frac{1}{2} \times 24 \times 24</math>  <math>= 144\text{cm}^2</math></p> <p>Area of both quadrilateral <math>= 12 \times 12 - \frac{1}{2} \times 6 \times 12</math>  <math>= 144 - 36</math></p>

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

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

