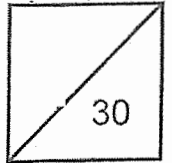




Methodist Girls' School (Primary)
Primary 6 Mathematics
Weighted Assessment 2 2024

Name: _____ () Date: _____

Class: Primary 6 _____



Questions 1 to 7 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (14 marks)

Do not write in this space

1 (a) Express $15y - 3 + 4y + 7y + 20$ in the simplest form.

Ans: (a) _____

(b) Find the value of the expression $\frac{7p - 6}{4}$, when $p = 35$.

Ans: (b) _____

2 (a) Express 0.25% as a fraction in its simplest form.

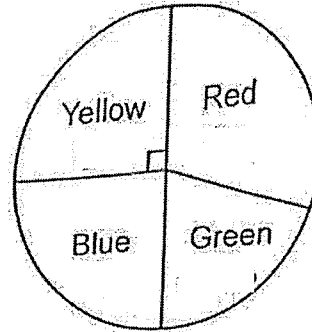
Ans: (a) _____

(b) $10 : 6 = \boxed{?} : 15$. What is the missing number in the box?

Ans: (b) _____

3

The pie chart shows the number of red, yellow, blue and green marbles. Half of the marbles are made up of red and green marbles in the ratio of 3 : 2. There are 52 green marbles. How many blue marbles are there?



Ans: _____

Do not write
in this space

4

At a carnival, the ratio of the number of adults to that of children is 3 : 8.
The ratio of the number of boys to the number of girls is 1 : 3.
What is the ratio of the number of adults to the number of boys to the number of girls at the carnival?

Ans: _____

5

Siti bought a pair of rollerblades at a 25% discount and saved \$28.
What was the price of the rollerblades before the discount?



Ans: \$ _____

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in this space

6

Randy spent 30% of his money on a badminton racket. He spent
another \$84 on books. In the end, he had 55% of his money left.
How much money did Randy have left?

Ans: \$ _____

7

Alison and Blake shared some stickers in the ratio of 1 : 2.

Carl had $\frac{3}{4}$ the number of stickers that Blake has.

What fraction of the total number of stickers did Blake have?

Do not write
in this space

Ans: _____



For questions 8 to 12, show your working clearly and write your answers in the spaces provided. The number or marks available is shown in brackets [] at the end of each question or part-question. [16 marks]

Do not write in this space

- 8 Samantha bought some red, yellow and green balls.
130 of the balls were red. 30% of the balls was yellow.
She bought 50 more green balls than yellow balls.

(a) How many yellow balls did Samantha buy?

Ans: (a) _____ [2]

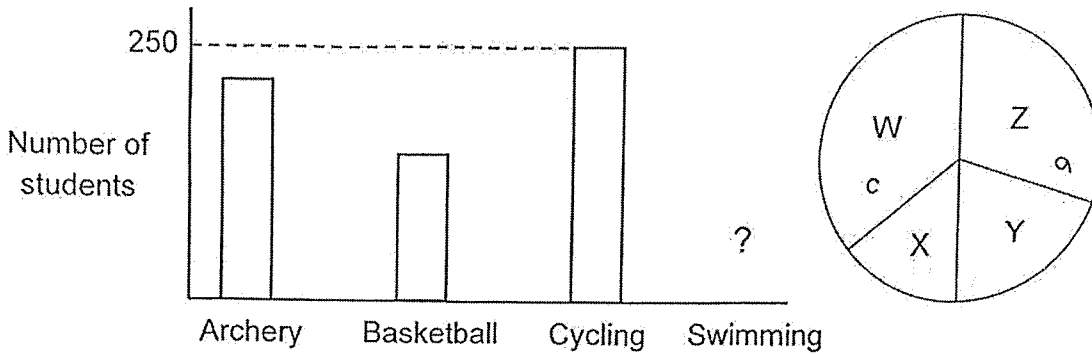
- (b) Samantha lost some of her red balls while playing a game.
There was a 10% decrease in the number of red balls.
How many red balls did she lose?

Ans: (b) _____ [1]

9

The bar graph represents the number of students who took part in some activities. Each student chose only one activity. The number of students who chose Basketball was $\frac{2}{3}$ of those who chose Archery.

The ratio of those who chose Cycling to that of Swimming was 5 : 2. The number of students who chose Swimming and Cycling formed 50% of all the students.



The information is also represented in a pie chart. The names of the activities are represented by the labels W, X, Y and Z.

(a) Fill in the blanks with the labels W, X, Y and Z.

[2]

Name of activity	Archery	Basketball	Cycling	Swimming
Label				

(b) How many students were there altogether?

Ans: _____ [1]

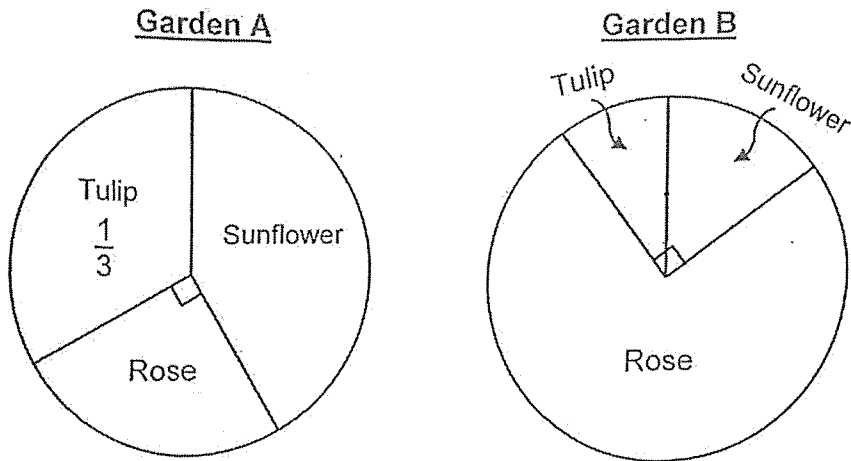
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10

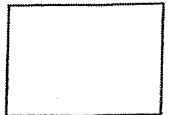
The pie chart shows the number of each type of flowers in 2 different gardens, Garden A and Garden B. The total number of flowers in Garden A is three times the total number of flowers in Garden B.

In Garden B, the number of Tulips is $\frac{2}{3}$ the number of Sunflowers.

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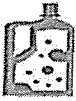


Each of the statement is either true, false, or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer. [2]



Statement	True	False	Not possible to tell
The number of roses in Garden A is three times of the total number of tulips and sunflowers in Garden B.			
There are fewer roses in Garden A than in Garden B.			
The ratio of the number of tulips in Garden A to the total number of flowers in Garden B is 1 : 1.			

11

The same brand of laundry detergent is sold in 2 shops in 2 sizes. The prices of the laundry detergent before discount at both shops are the same.

<p>SHOP A</p> <div style="display: flex; justify-content: space-around;"><div style="text-align: center;"> Small</div><div style="text-align: center;"> Big</div></div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"><p><i>For every 1 big bottle purchased, get 45% discount on 1 small bottle.</i></p></div>	<p>SHOP B</p> <div style="display: flex; justify-content: space-around;"><div style="text-align: center;"> Small</div><div style="text-align: center;"> Big</div></div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"><p>Bundle set @ \$35 2 small bottles + 2 big bottles</p></div>
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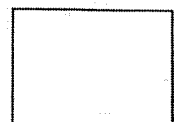
- (a) The price of a big bottle before discount is \$14.40. Susan bought 1 small bottle and 1 big bottle of detergent from Shop A. She paid \$18.25 altogether. What was the price of the small bottle before discount?

Ans: (a) _____ [2]

- (b) Michelle bought a bundle set from Shop B. What percentage of the amount of money spent in Shop B did she save by buying from Shop B instead of Shop A? Round your answer to 1 decimal place.

Ans: (b) _____ [3]

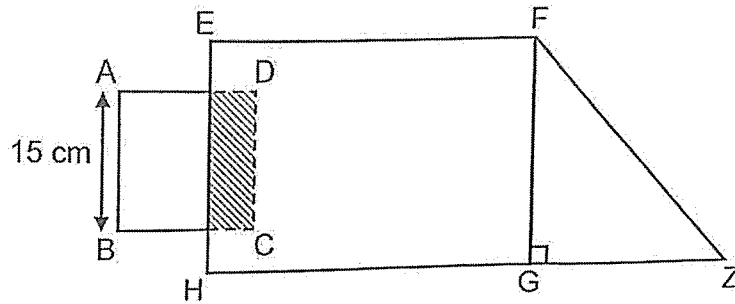
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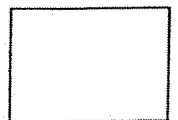
12

The figure below is formed by a right-angled triangle FGZ , an overlapped square $ABCD$ and rectangle $EFGH$. The area of the square is 25% of the area of rectangle. The ratio of the area of the rectangle to that of the triangle is $5 : 3$. The shaded area is $\frac{1}{3}$ that of the total area of the square. The square has side 15 cm. What is the area of the figure?

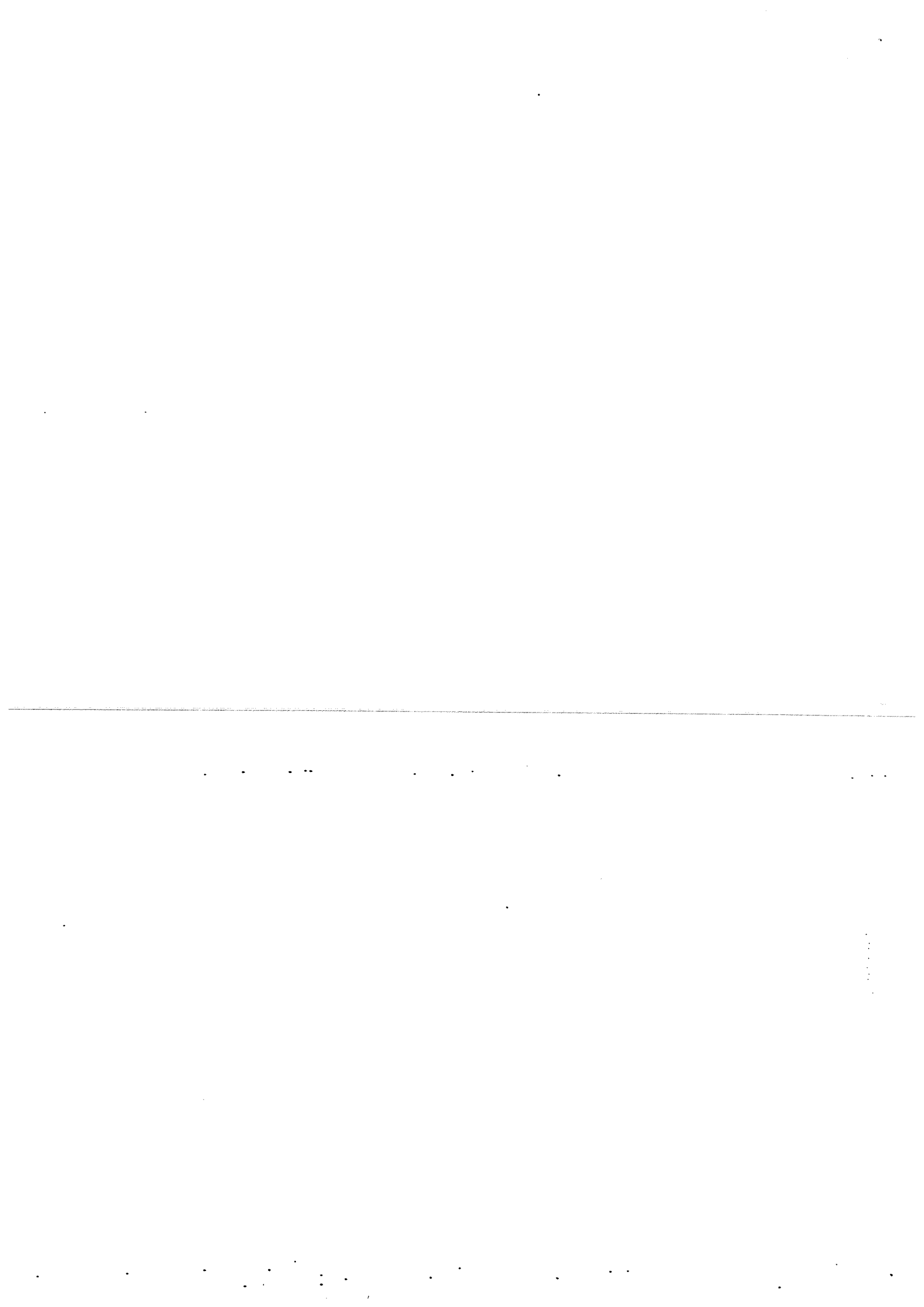
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Ans: _____ [3]



END OF PAPER



SCHOOL : MGS SCHOOL
LEVEL : PRIMARY 6
SUBJECT : MATH
TERM : 2024 WA2

Q1)	a) $(18y + 17)$ b)59.75
Q2)	a) $\frac{1}{400}$ b)25
Q3)	$4u = 52$ $1u = 52 \div 4 = 13$ $5u = 13 \times 5 = 65$
Q4)	$3 : 2 : 6$
Q5)	$25\% \rightarrow 28$ $100\% \rightarrow 28 \times 4 = \112
Q6)	$100\% - 55\% - 30\% = 15\%$ $15\% \rightarrow 84$ $5\% \rightarrow 84 \div 3 = 28$ $55\% \rightarrow 28 \times 11 = \308
Q7)	$\frac{4}{9}$
Q8)	a)135 b) $10\% \times 130 = 13$
Q9)	a)Z , Y , W , X b) $35u \times 2 = 70u$ $25u = 250$ $U = 250 \div 25 = 10$ $70u = 10 \times 70 = 700$
Q10)	True False True
Q11)	a)\$7.00 b)4.3%

Q12)	$25\% \rightarrow 15 \times 10 = 225$ $100\% \rightarrow 225 \times 4 = 900$ $5U = 900$ $1U = 900 \div 5 = 180$ $3U = 180 \times 3 = 540$ $\frac{2}{3} \times 225 = 150$ $150 + 900 + 450 = 1590\text{cm}^2$
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