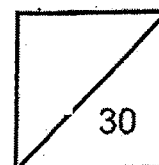




Methodist Girls' School (Primary)
Primary 6 Mathematics
Weighted Assessment 2 2024

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.

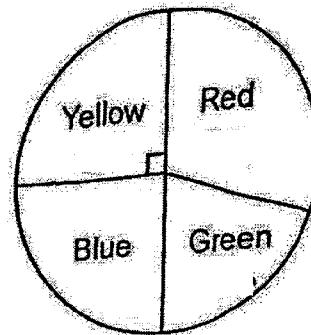
Ans: (a) _____

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

Ans: (b) _____

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- 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: _____

- 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?

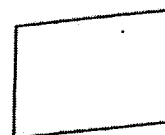
Ans: _____

- 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: \$ _____

Do not write
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]

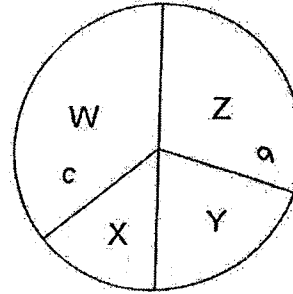
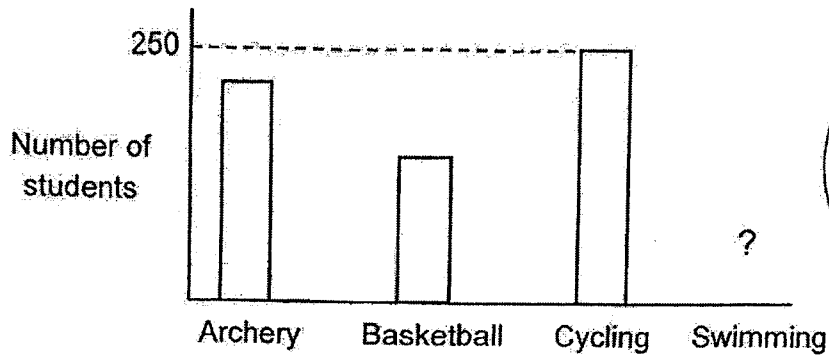
- (b) Samantha lost some of her red balls while playing a game.
There was a 10% decrease in the number of red balls.
How many red balls did she lose?

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?

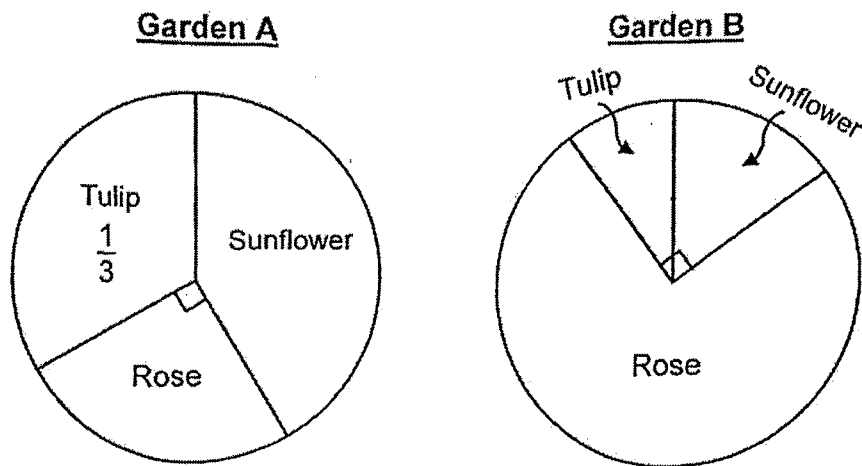
Ans: _____ [1]

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.

Do not write
in this space



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.

SHOP A

Small



Big

For every 1 big bottle purchased, get 45% discount on 1 small bottle.

SHOP B

Small



Big

Bundle set @ \$35
2 small bottles
+
2 big bottles

Do not write
in this space

- (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]

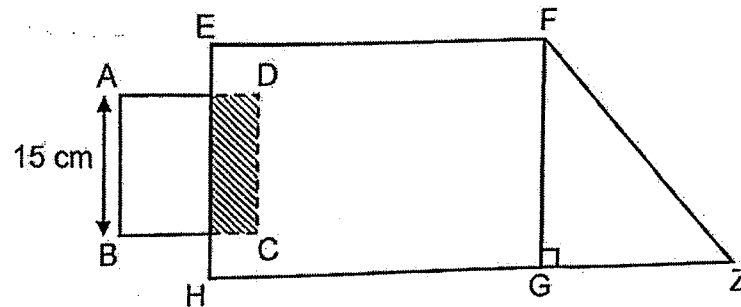
- (b) Michelle bought a bundle set from Shop B. What percentage of the amount of money spent in Shop B did she save by buying from Shop B instead of Shop A? Round your answer to 1 decimal place.

Ans: (b) _____ [3]

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?

Do not write
in this space



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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