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

Name: _____ ( ) Date: _____

Class: Primary 6_____

30

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.

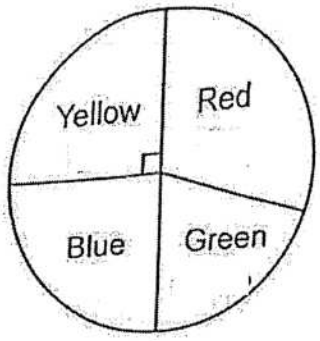
Ans: (a) _____

(b) 10 : 6 = [?] : 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?



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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: _____

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

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Ans: $ _____

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: $ _____

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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: _____

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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]

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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]

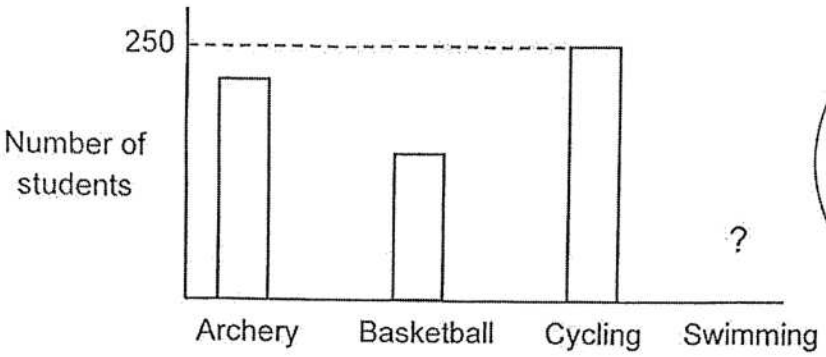
(b) Samantha lost some of her red balls while playing a game.
There was a 10% decrease in the number of red balls.
How many red balls did she lose?

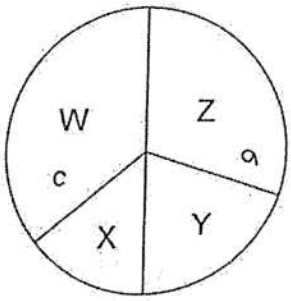
Ans: (b) _____ [1]

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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]

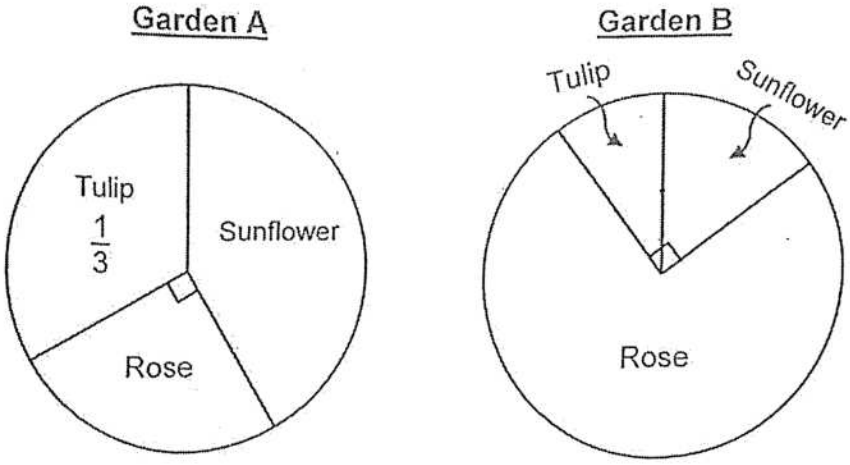
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10 The pie chart shows the number of each type of flowers in 2 different gardens, Garden A and Garden B. The total number of flowers in Garden A is three times the total number of flowers in Garden B.

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]

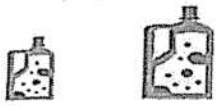
Statement	True	False	Not possible to tell
The number of roses in Garden A is three times of the total number of tulips and sunflowers in Garden B.			
There are fewer roses in Garden A than in Garden B.			
The ratio of the number of tulips in Garden A to the total number of flowers in Garden B is 1 :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

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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.

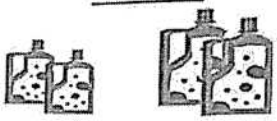
SHOP A



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

(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]

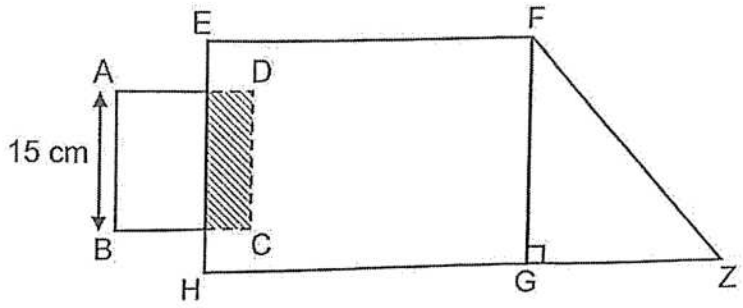
(b) Michelle bought a bundle set from Shop B.
What percentage of the amount of money spent in Shop B did she save by buying from Shop B instead of Shop A?
Round your answer to 1 decimal place.

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?

Do not write in this space



Ans: _____ [3]

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