Methodist Girls' School (Primary)
Primary 6 Mathematics
Weighted Assessment 2 2025

The use of an APPROVED CALCULATOR is ALLOWED.

Name: _____ ( ) **Date:** _____

Class: Primary 6. _____ **Parent's Signature:** _____

30

Questions 1 to 6 carry 1 mark each. Questions 7 to 12 carry 2 marks each. Show your workings clearly in the space below each question and write your answers in the answer spaces provided. For questions which require units, give your answers in the units stated. (18 marks)

Do not write in this space

1 Express 1.6 as a percentage.

Ans: _____ %

2 43% of a number is 344. What is the number?

Ans: _____

3 What is the missing number in the box?

45 : 18 = 10 : ☐

Ans: _____

(Go on to the next page)

4 There are 70 books in the class library. 28 of them are fiction books and the rest are non-fiction. What percentage of the books are non-fiction?

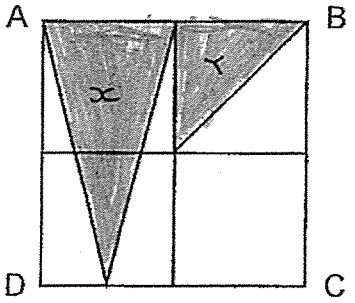
Do not write in this space

Ans: _____ %

5 Jason played 21 badminton matches in a week. His brother played 14 fewer matches than Jason. Find the ratio of the number of matches Jason played to the total number of matches both boys played.

Ans: _____

6 ABCD is a square made up of 4 identical smaller squares. What is the ratio of the shaded area to the area of ABCD?



Ans: _____

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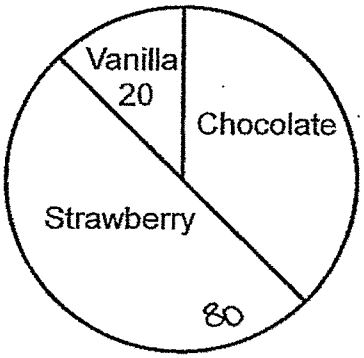
7. The pie chart below shows the number of ice creams sold for each flavour. The ratio of the number of vanilla ice creams sold to the number of strawberry ice creams sold is 1 : 4. Complete the table below.

Do not write in this space



Flavour of ice cream	Number of ice creams sold	Percentage of ice creams sold
Vanilla	20	
Chocolate		
Strawberry		50%

(Go on to the next page)

8 Ramli was 120 cm tall last year. This year, his height increased to 130.8 cm. Find the percentage increase in his height.

Do not write in this space

Ans: _____ %

9 Halim had some blue and red balloons. At first, 30% of the balloons were blue. After he gave away 20 blue balloons, the percentage of blue balloons Halim had become 20%. How many balloons were left in the end?

Ans: _____

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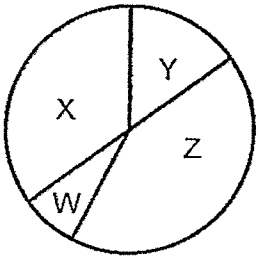
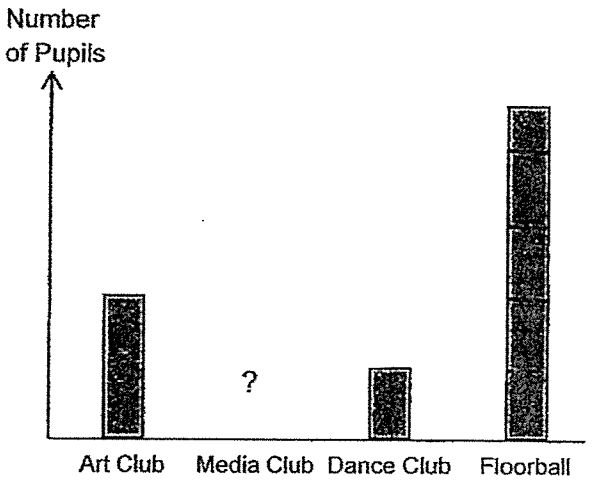
10 The bar graph represents the number of pupils in 4 CCAs at a school.
50% of the pupils are in Art Club and Floorball.
The bar for Media Club is not shown.

Do not write in this space





The information is also represented by a pie chart.
The names of the CCA are presented by the labels W, X, Y and Z.
Fill in the blanks with the labels W, X, Y and Z.

Type of CCA	Art Club	Media Club	Dance Club	Floorball
Label				

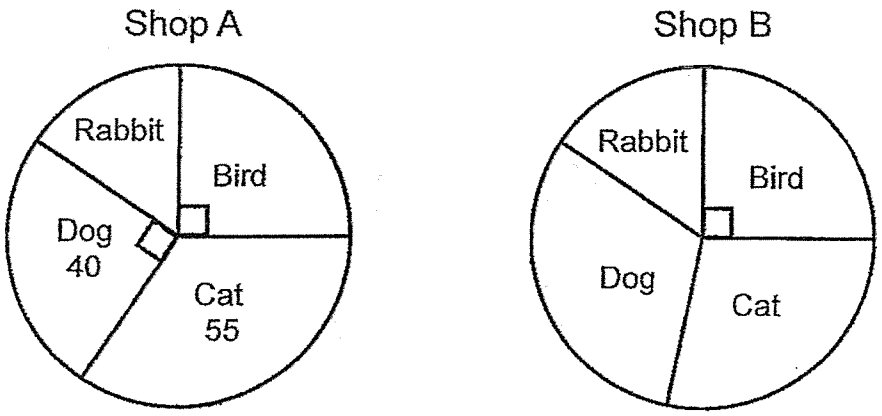
11 A box can hold at most 36 pears or 24 oranges. 28 pears and some oranges are put in the box. What is the greatest possible number of oranges in the box?

Ans: _____

(Go on to the next page)

12 The pie charts show the number of pets in two shops, A and B. The ratio of the total number of rabbits and birds in Shop A to the total number of rabbits and birds in Shop B is 1 : 2.

Do not write in this space



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

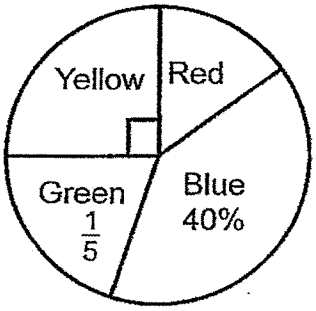
Statement	True	False	Not possible to tell
There are 25 rabbits in Shop A			
There is an equal number of birds in Shop A and Shop B.			
There are twice as many dogs in Shop B as in Shop A.			

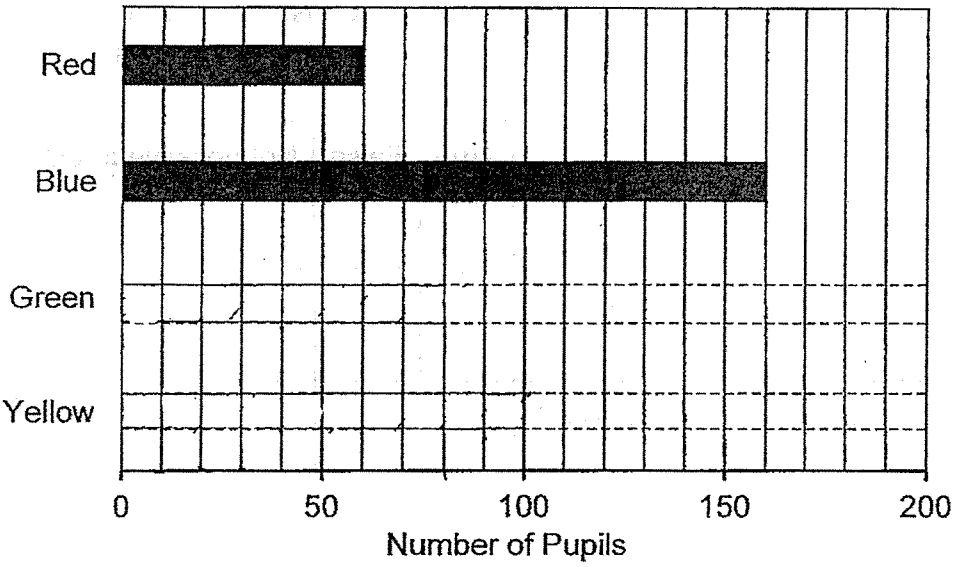
(Go on to the next page)

For Questions **13** to **15**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (12 marks)

Do not write in this space

13 The pie chart below shows the favourite colours chosen by pupils in a school. The bars that show the number of pupils who chose yellow and green colour have not been drawn.





(a) What percentage of the pupils chose red as their favourite colour?

Ans: (a) _____ [1]

(b) Draw the bars for the number of pupils who chose yellow and green. [2]

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14 Mr Lim had some pies. $\frac{3}{5}$ of them were chicken pies and the rest were tuna pies. He gave away half of the chicken pies and bought some tuna pies. The number of tuna pies increased by 20%. In the end, he had 96 tuna pies.

Do not write in this space

(a) How many tuna pies did Mr Lim buy?

Ans: (a) _____ [2]

(b) How many pies did Mr Lim have in the end?

Ans: (b) _____ [2]

(Go on to the next page)

15 Alvin has some 10-cent, 20-cent and 50-cent coins in a money box.
The ratio of the number of 10-cent coins to that of 20-cent coins is 1 : 2.
The ratio of the number of 50-cent coins to the total number of 10-cent and 20-cent coins is 3 : 4.

Do not write in this space

(a) Find the ratio of the number of 10-cent coins to the number of 50-cent coins.

Ans: (a) _____ [2]

(b) The total value of the 50-cent coins is $16.40 more than the total value of the 10-cent coins. How much money does Alvin have in his money box?

Ans: (b) _____ [3]

END OF PAPER

YEAR : 2025
LEVEL : PRIMARY 6
SCHOOL : METHODIST GIRLS' PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : WEIGHTED ASSESSMENT 2

SECTION A

Q1

1.6 x 100 = 160%

Q2

43% = 344
1% = 344 ÷ 43 = 8
100% = 8 x 100 = 800

Q3

45 : 18 (Both ÷ 3)
15 : 6 (÷ 3 again)
5 : 2 (x 2)
10 : 4

Q4

70 – 28 = 42 (Non fiction)
$\frac{42}{70}$ x 100% = 60%

Q5

J : TN
21 : 28 (Both ÷ 7)
3 : 4

Q6

$x = \frac{1}{2}$ x 2u x 4u
= ~~2u~~ 4u
$y = \frac{1}{2}$ x 2u x 2u
= 2u
2u + 4u = 6u (total shaded area)
4u x 4u = 16u
6 : 16 (Both ÷ 2)
3 : 8

Q7

Flavour of ice cream	Number of ice creams sold	Percentage of ice creams sold
Vanilla	20	12.5%
Chocolate	60	37.5%
Strawberry	80	50%

Q8

130.8cm – 120cm = 10.8cm
$\frac{10.80}{120}$ x 100% = 9%

Q9

Before :
B : R
30 : 70
3 : 7 (Both x 8)
24 : 56
After :
B : R : T
20 : 80
2 : 8 (Both x 7)
14 : 56 : 70
Difference : 24u – 14u = 10u
10u = 20
1u = 2
70u = 140

Q10

Label Y, Z, W, X

Q11

36p = 240
$1p = \frac{2}{3}$
36 – 28 = 8
$8p = \frac{2}{3}$ x 8 = $5\frac{1}{3}$ = 5

Q12	True False False	
Q13	a)	R = 100% - 40% - 25% - 20% = 15%
	b)	15% = 60 1% = 4 20% = 4 x 20 = 80 (Green) 25% = 4 x 25 = 100 (Yellow)
Q14	a)	Before : C : T : T 3 : 2 : 5 6 : 4 : 10 $\frac{3}{5} \div \frac{2}{1} = \frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$ $\frac{6}{10} - \frac{3}{10} = \frac{3}{10}$ $\frac{20}{100} \times 4 = 0.8$ 4 + 0.8 = 4.8 After : C : T : T 3 : 4 : 8 : 7.8 4.8u = 96 1u = 20 0.8u = 16
	b)	7.8u = 20 x 7.8 = 156
Q15	a)	10c : 20c : T 1 : 2 : 3 4 : 8 : 12 50c : 10c + 20c 3 : 4 9 : 12 10c : 50c 4 : 9
	b)	20c x 8 = $1.60 50c x 9 = $4.50 10c x 4 = $0.40 $4.50 - $0.40 = $4.10 4.10u = $16.40 1u = 4 sets 1.60 + 4.50 + 0.40 = $6.50 6.50u = 4 x 6.50 = $26