Name: _____ ( )

Class: Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2023 Weighted Assessment

Term 2 Week 9

Total Marks	**30**

_____

Parent's/Guardian's Signature

Time : 50 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of an approved calculator is expected, where appropriate.

This booklet consists of 10 printed pages.

Questions 1 and 2 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (4 marks)

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1. A fruit seller sold some apples, mangoes and oranges in the ratio 7 : 3 : 6. He sold 336 apples, mangoes and oranges altogether. How many oranges did the fruit seller sell?

Ans : _____

2. A cubical tank of edge 56 cm was $\frac{1}{7}$ filled with water at first. Water flowed from a tap into the tank at a rate of 4.5 ℓ per minute. Find the volume of water in the tank after 15 minutes.

Ans : _____ ml

For questions **3** to **9**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets ( ) at the end of each question or part-question. (26 marks)

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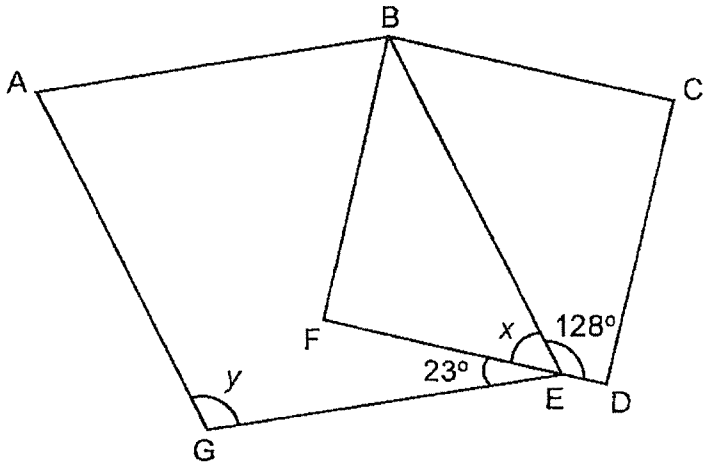
3. The figure is made up of a rhombus ABEG and a square BCDF.



(a) Name an obtuse angle.

Ans : _____ [1]

(b) Find $\angle x$.

Ans : _____ [1]

(c) Find $\angle y$.

Ans : _____ [1]

4. Jia Hui's salary was $\frac{4}{7}$ of Aishah's salary. Jia Hui spent $729. Aishah did not spend any money. In the end, the amount of money Jia Hui had left to the amount of money Aishah had was 2 : 5. How much was Jia Hui's salary?

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Ans : _____ [3]

5. Shanti wanted to buy a sofa set. The sofa set in Shop A was sold at a 5% discount and the similar sofa set in Shop B was sold at a 20% discount. Both shops sold the sofa set at the same price before discount.

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To buy the sofa set in Shop A, Shanti would need $150 more than what she had. Shanti bought the sofa set in Shop B and had $300 left.

(a) What was the price of the sofa set before discount?

Ans : (a) _____ [2]

(b) How much money did Shanti have at first?

Ans : (b) _____ [1]

6. The figure is formed by three identical circles with centres A, C and E. ABEF and BCDE are identical squares of side 10 cm. AC and FD are straight lines. (Take π = 3.14)

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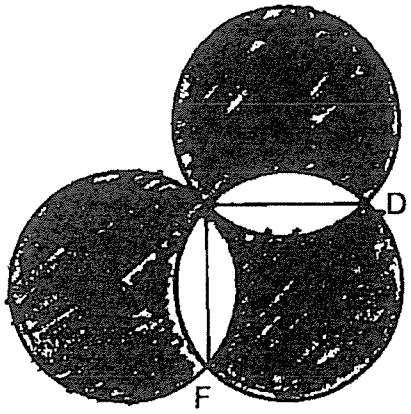

(a) Find the total area of the shaded parts.

Ans : (a) _____ [2]

(b) Find the perimeter of the shaded parts.

Ans : (b) _____ [2]

7. The line graph shows the mass of newspapers a class collected at the end of each month for 6 months.

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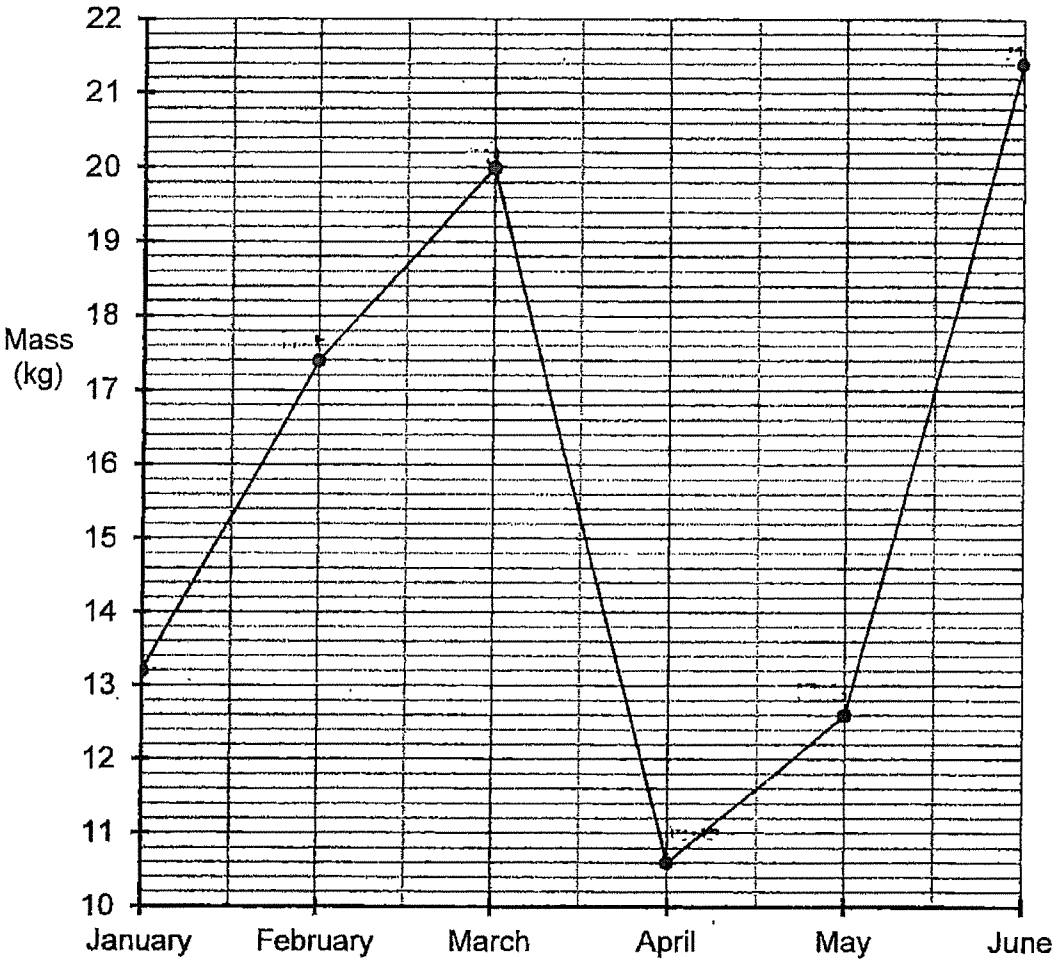

(a) In which month was the increase in the mass of newspapers collected the greatest?

Ans : (a) _____ [1]

(b) Find the percentage decrease in the mass of newspapers collected from March to April.

Ans : (b) _____ [1]

(c) The collection of newspapers continued until December. In February, the class collected $\frac{2}{9}$ of the total mass of newspapers collected. What was the total mass of the newspapers collected from January to December?

Ans : (c) _____ [1]

8. Basheer drew some identical rectangles along a straight line on a piece of paper to form the figure as shown. Each rectangle has a length of 7.2 cm and a breadth of 5 cm. The shaded squares are the overlapping parts. Each shaded square has a side of 2.4 cm.

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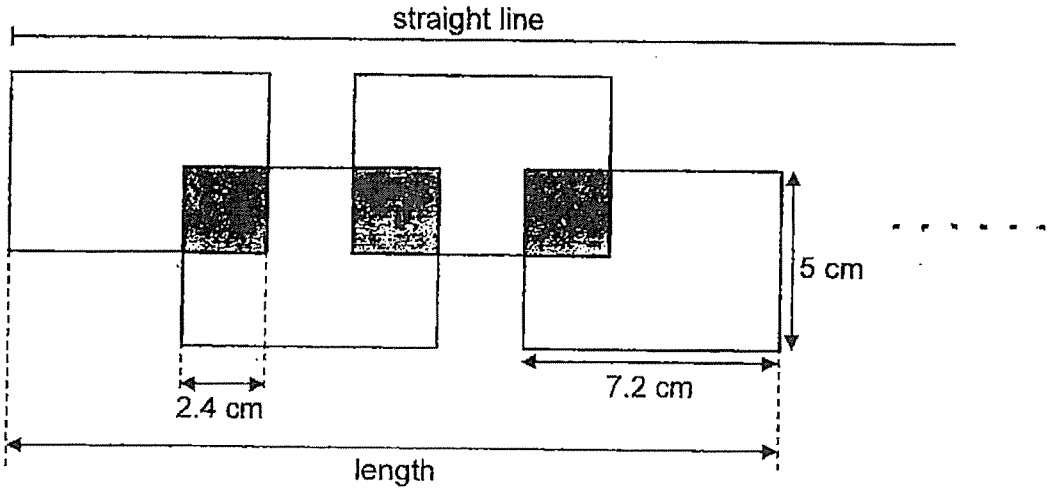

(a) What was the length of the figure formed by Basheer using 4 such rectangles?

Ans : (a) _____ [1]

(b) Find the area of the figure which was formed by using 4 such rectangles.

Ans : (b) _____ [2]

(c) Basheer continued to draw more rectangles along the straight line. The distance between the first rectangle and the last rectangle was 290.4 cm. How many rectangles did he draw altogether?

Ans : (c) _____ [2]

9. Mr Ho had a box of red, blue and green pens. $\frac{1}{5}$ of the pens were red, $\frac{1}{4}$ of the pens were blue and the rest were green pens. The cost of each pen is shown in the table. He sold all the pens and collected $1141.

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Colour of pen	Cost
Red	$1.20
Blue	$1.60
Green	$1.80

(a) What fraction of the pens were green?

Ans : (a) _____ [1]

(b) How many pens did Mr Ho sell altogether?

Ans : (b) _____ [2]

(c) Daphne bought 2 red pens and 4 green pens with $\frac{2}{7}$ of her pocket money. She bought blue pens with all her remaining pocket money. How many blue pens did Daphne buy?

Ans : (c) _____ [2]

THE END

YEAR : 2023
LEVEL : PRIMARY 6
SCHOOL : CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM : 2023 WEIGHTED ASSESSMENT (TERM 2 WEEK 9)

WEIGHTED ASSESSMENT 1

<table>
<tr><td>Q1</td><td>7 + 3 + 6 = 16
336 ÷ 16 = 21
21 x 6 = <u>126</u></td><td>Q2</td><td>$56 \times \frac{1}{7} = 8$
8 x 56 x 56 = 25088
4.5L = 4500ml
4500 x 15 = 67500
67500 + 25088 = <u>92588ml</u></td></tr>
<tr><td>Q3</td><td>(a) ∠Y
(b) 180 – 128 = 52°
(c) 52 + 23 = 75
180 – 75 = <u>105°</u></td><td>Q4</td><td><table><tr><td>JH : A</td><td>JH : A</td></tr><tr><td>4 : 7</td><td>2 : 5</td></tr><tr><td>20 : 35</td><td>14 : 35</td></tr></table>20 – 14 = 6
729 ÷ 6 = 121.5
121.5 x 20 = <u>$2430</u></td></tr>
<tr><td>Q5</td><td>(a) 300 + 150 = 450
20 – 5 = 15
450 ÷ 15 = 30
30 x 100 = $3000
(b) 100 – 20 = 80
$3000 \times \frac{80}{100} = 2400$
2400 + 300 = <u>$2700</u></td><td>Q6</td><td>(a) $\frac{1}{2}$ x 10 x 10 = 50
$\frac{1}{4}$ x 3.14 x 10 x 10 = 78.5
78.5 – 50 = 28.5
3.14 x 10 x 10 = 314
314 x 3 = 942
28.5 x 8 = 228
942 – 228 = 714cm² (a)
(b) 10 + 10 = 20
3.14 x 20 = 62.8
62.8 x 3 = <u>188.4cm</u> (b)</td></tr>
<tr><td>Q7</td><td>(a) 17.4 – 13.2 = 4.2 (February)
20 – 17.4 = 2.6 (March)
12.6 – 10.6 = 2 (May)
21.4 – 12.6 = <u>8.8 (June)</u>
(b) 20 – 10.6 = 9.4
$\frac{9.4}{20}$ x 100 = 47%
(c) 17.4 ÷ 2 = 8.7
8.7 x 9 = <u>78.3kg</u></td><td>Q8</td><td>(a) 7.2 – 2.4 = 4.8
4.8 + 4.8 + 4.8 + 7.2 = <u>21.6cm</u>
(b) 2.4 x 2.4 = 5.76
5.76 x 3 = 17.28
7.2 x 5 = 36
36 x 4 = 144
144 – 17.28 = <u>126.72cm²</u>
(c) 290.4 – 7.2 = 283.2
7.2 – 2.4 = 4.8
283.2 ÷ 4.8 = 59
59 + 1 = <u>60</u></td></tr>
</table>

Q9

(a) $1 - \frac{1}{5} - \frac{1}{4} = \frac{11}{20}$

(b) $\frac{1}{5} = \frac{4}{20}$

$\frac{1}{4} = \frac{5}{20}$

=

R : B : G : Total			
4	5	11	20

4 x 1.2 = 4.8

5 x 1.6 = 8

11 x 1.8 = 19.8

4.8 + 8 + 19.8 = 32.6

1141 ÷ 32.6 = 35

35 x 20 = 700

(c) 2 . 1.2 = 2.4

4 x 1.8 = 7.2 = 9.6

9.6 ÷ 2 = 4.8

7 – 2 = 5

4.8 x 5 = 24

24 ÷ 1.6 = 15