



Rosyth School
Term Assessment 2023 (Term 1)
MATHEMATICS
Primary 6
Paper 1

Name : _____ ()

Class : Pr 6 - _____

Date : 21st February 2023 Parent's Signature: _____

Total Time for Booklets A and B : 25 min

Booklet B

Instructions to Pupils:

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. Do not use correction fluid/tape or highlighters.
6. The use of a calculator is not allowed.

Questions	Maximum Mark	Marks Obtained
Q 6 – 14	15	

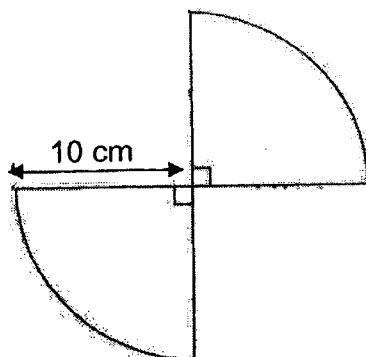
* This paper consists of 6 printed pages altogether (including the cover page).

Questions **6** to **8** carry 1 mark each. Questions **9** to **14** carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write
in this space

All diagrams in this paper are not drawn to scale unless stated otherwise.
(15 marks)

6. The figure below is made up of 2 identical quadrants. Find the perimeter of the figure. ($\pi = 3.14$)



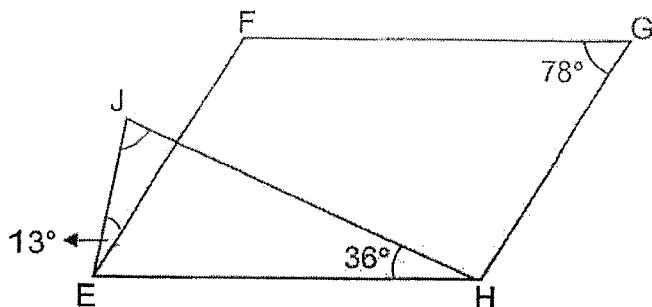
Ans: _____ cm

7. In a box, 25% of the keychains are from Thailand and 45% of the keychains are from Singapore. The remaining 45 keychains are from other countries. How many keychains are there in the box?

Ans: _____

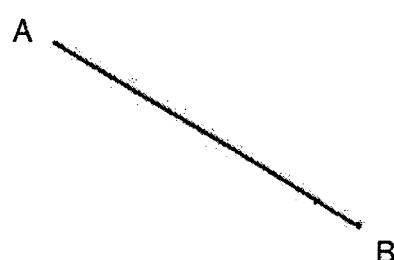
8. The figure below is made up of a parallelogram EFGH and a triangle EJH.
 $\angle FGH = 78^\circ$, $\angle JHE = 36^\circ$ and $\angle JEF = 13^\circ$.
Find the value of $\angle EJH$.

Do not write
in this space



Ans: _____ °

9. Draw and label the rhombus ABCD in the space provided below. The $\angle ABC$ in the rhombus is 65° . The line AB, which is 5 cm, has been drawn for you.



10. Jane and Patrick bought a box of badges. Jane took $\frac{7}{10}$ of the badges and Patrick took the rest. After Jane gave away 39 badges, Jane's number of badges left is $\frac{1}{6}$ of Patrick's number of badges. How many badges did Jane have in the end?

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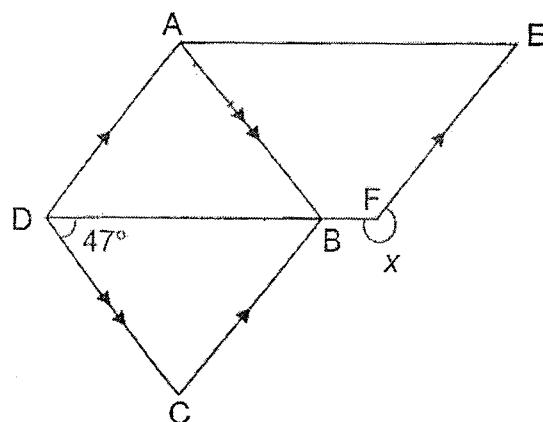
Ans: _____

11. Kylie received a fixed sum of salary monthly. In January, she saved 20% of her salary. Her savings in February increased by 40%. Her total savings for the 2 months was \$480. What was the sum of salary given to her monthly?

Ans: \$ _____

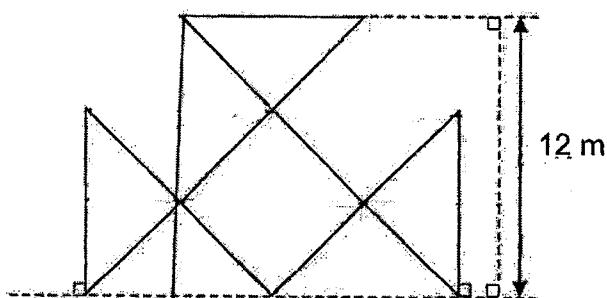
12. In the figure below, ABCD is a rhombus and AEFD is a parallelogram. $\angle CDB = 47^\circ$. Find $\angle x$.

Do not write
in this space



Ans: _____ °

13. Five identical isosceles triangles are joined as shown in the figure below. Find the area of one such triangle.



Ans: _____ m^2

14. There is a total of 400 red and blue marbles in a container. After 64 red marbles are added into the container and 7% of the blue marbles are removed from the container, 443 marbles are left in the container. How many blue marbles are there in the container in the end?

Do not write
in this space

Ans: _____

End of paper
Have you checked your work?



Rosyth School
Term Assessment 2023 (Term 1)
MATHEMATICS
Primary 6

Name: _____ ()

Class: Pr 6 -

Date: 21st February 2023

Parent's Signature: _____

Time: 35 min

PAPER 2

Instructions to Pupils:

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. Do not use correction fluid/tape or highlighters.
6. The use of an approved calculator is allowed.

Questions	Maximum Mark	Marks Obtained
Q 15 to 20	20	

Section	Maximum Mark	Marks Obtained
Paper 1	20	
Paper 2	20	
Total	40	

* This booklet consists of 7 printed pages altogether. (including this cover page).

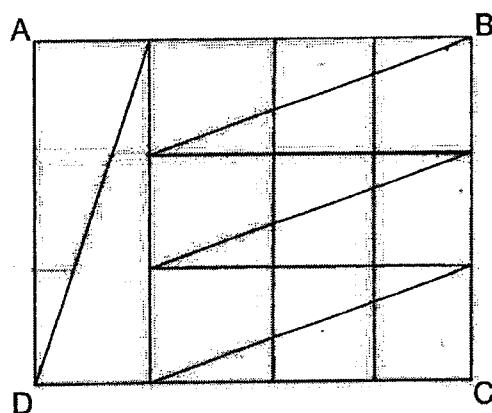
For Questions 15 to 20, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. For questions which require units, give your answers in the units stated.

Do not write
in this space

All diagrams in this paper are not drawn to scale unless stated otherwise.
(20 marks)

15. In the figure below, ABCD is a rectangle made up of 8 identical right-angled triangles.

The perimeter of rectangle ABCD is 364cm, what is the area of rectangle ABCD?



Ans: _____ cm² [2]

16. The pupils in a class are divided equally into Team A and Team B.
The ratio of the number of girls to the number of boys in Team A is 4 : 3.
The ratio of the number of girls to the number of boys in Team B is 3 : 1.
What is the ratio of the number of girls to the number of boys in the class?

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Ans: _____ [3]

17. A rectangular piece of paper, as shown in Figure 1, is folded along the dotted line such that the total area of triangles A, B and C, as shown in Figure 2 is $\frac{5}{9}$ the area of the rectangular piece of paper.

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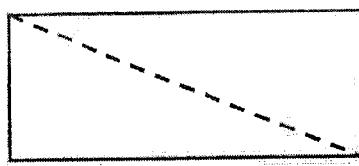


Figure 1

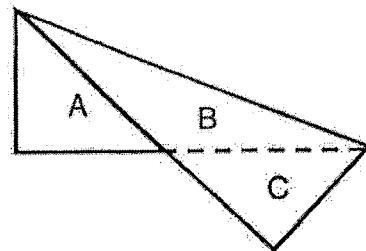


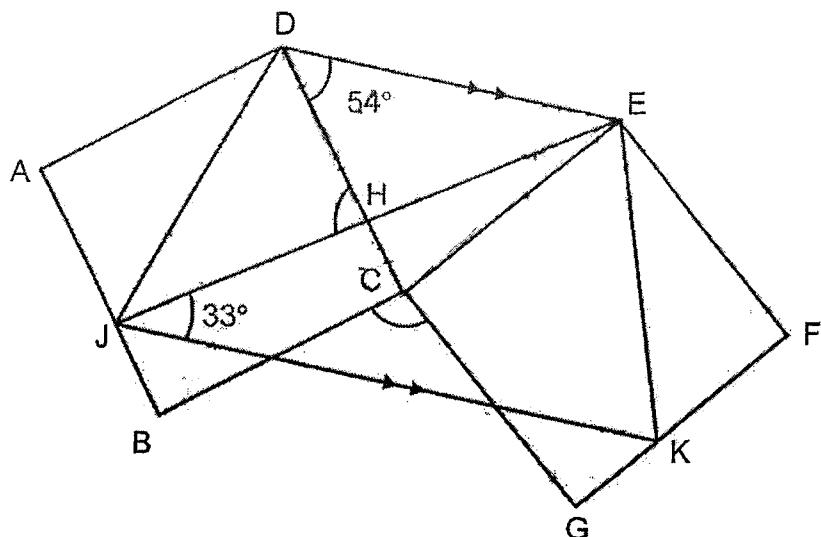
Figure 2

The area of triangle B is 24 cm^2 , find the area of the rectangular piece of paper.

Ans: _____ [3]

18. The figure shown below is made up of two identical squares, ABCD and CEFG, a trapezium DEKJ and a triangle DEJ. The line DE is parallel to the line JK. $\angle CDE = 54^\circ$ and $\angle EJK = 33^\circ$

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- (a) Find $\angle BCG$.

Ans: _____ [2]

- (b) Find $\angle DHJ$

Ans: _____ [2]

19. Three boxes, X, Y, and Z contained a total of 848 marbles at first. 120 marbles were removed from Box X. The number of marbles in Box Y was doubled. $\frac{1}{5}$ of the marbles in Box Z were given away. In the end, the ratio of the number of marbles in Box X to that of Box Y to that of Box Z was 1 : 2 : 1. How many marbles were there in Box X at first?

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Ans:

[4]

20. Below are the prices of facial masks from three different stores.

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in this space

Store A	Store B	Store C
Original price: \$4.20 for 1 mask Promotion: 50% discount for all masks!	Original price: \$25.90 for 1 pack of 10 Promotion: For each pack bought, buy a 2nd pack at 40% discount!	Original price: \$3.80 for 1 mask Promotion: Buy 5 get 4 free!

Of the three stores, which store should Mrs Chong buy from if she wants to spend the least amount of money for 100 masks? How much would she need to pay?

—

Ans: Store _____ [1]

Ans: _____ [3]

End of paper
Have you checked your work?

BP~108

SCHOOL : ROSYTH SCHOOL
LEVEL : PRIMARY 6
SUBJECT : MATH
TERM : WA1 2023

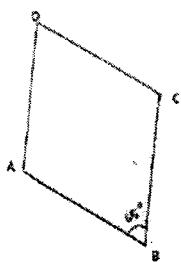
Q1	Q2	Q3	Q4	Q5
4	3	2	1	3

Q6) 71.40CM

Q7) 150

Q8) 53°

Q9)



Q10) 3

Q11) \$1000

Q12) 227°

Q13) 16m²

Q14) 279

Q15) 8112

Q16) 37:19

Q17) 54cm²Q18) a)108°
b)87°

Q19) 344

Q20) \$207.20

TA 1 2023 - Selected Solutions

Q11

11. Kylie received a fixed sum of salary monthly. In January, she saved 20% of her salary. Her savings in February increased by 40%. Her total savings for the 2 months was \$480. What was the sum of salary given to her monthly?

$$\text{Jan} \rightarrow 20\%$$

$$\begin{aligned}\text{Feb} &\rightarrow 140\% \text{ of } 20 \text{ (Jan)} \\ &= 28\end{aligned}$$

$$\begin{aligned}\text{Jan and feb} &\rightarrow 20 + 28 \\ &= 48\end{aligned}$$

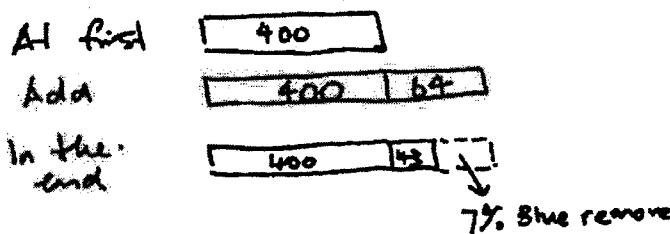
$$48\% \text{ of Sal \$} \rightarrow 480$$

$$1\% \text{ of Sal \$} \rightarrow 10$$

$$\begin{aligned}\text{Salary} &\rightarrow 10 \times 100 \\ &= \$1000\end{aligned}$$

Q14

14. There is a total of 400 red and blue marbles in a container. After 64 red marbles are added into the container and 7% of the blue marbles are removed from the container, 443 marbles are left in the container. How many blue marbles are there in the container in the end?



$$7\% \text{ of Blue} \rightarrow 464 - 443$$

$$= 21$$

$$1\% \text{ of blue} \rightarrow 21 \div 7$$

$$= 3$$

$$\text{No of blue} \rightarrow 93 \times 3$$

$$= 279$$

Q17

17. A rectangular piece of paper, as shown in Figure 1, is folded along the dotted line such that the total area of triangles A, B and C, as shown in Figure 2 is $\frac{5}{9}$ the area of the rectangular piece of paper.

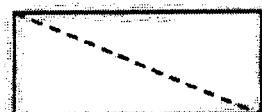


Figure 1

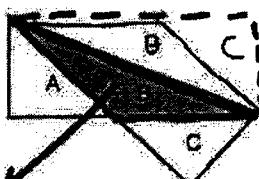


Figure 2

The area of triangle B is 24 cm^2 , find the area of the rectangular piece of paper.

$$A + B + C \text{ ----- 9 units}$$

$$A + B + C \text{ ----- 5 units}$$

$$B \text{ ----- } (9 - 5) \text{ units}$$

$$= 4 \text{ units}$$

$$4 \text{ units} = 24$$

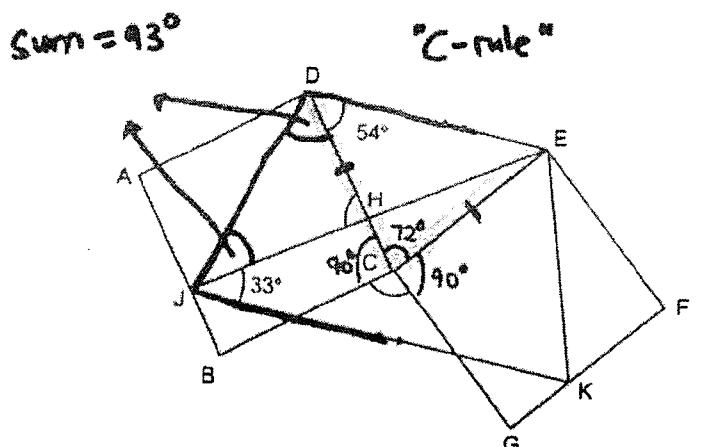
$$1 \text{ unit} = 24 \div 4$$

$$= 6$$

$$9 \text{ units} = 6 \times 9$$

$$= 54$$

Q18

Find $\angle BCG$.

Triangle CDE is isosceles

$$\angle DCE = 180 - 54 \times 2 = 72$$

$$\begin{aligned}\angle BCG &= 180 - 72 \quad \text{or} \quad 360 - 180 - 72 \\ &= 108\end{aligned}$$

Find $\angle DHJ$

$$\text{Sum of } \angle DJH \text{ and } \angle HDJ = 180 - 54 - 33$$

$$\begin{aligned}\angle DHJ &= 93 \\ &= 180 - 93 \\ &= 87\end{aligned}$$

Q19

	X	Y	Z
In the end	$1u$	$2u$	$1u$
work backwards	-20	$x2$	$\frac{4}{5}T \rightarrow 1u$ $\frac{1}{5}T \rightarrow \frac{1}{4}u$ $\therefore -\frac{1}{4}u$
at first	$1u+120$	$1u$	$1\frac{1}{4}u \text{ or } 1.25u$

$$\begin{aligned}\text{Total at first} &\rightarrow (1u+120) + 1u + 1.25u \\ &= 3.25u + 120\end{aligned}$$

$$3.25u \rightarrow 848 - 120 = 728$$

$$1u \rightarrow 224$$

$$x (\text{at first}) \rightarrow 224 + 120 = 344.$$

Q20

Shop A

$$100 \times 2.1 = 210$$

Shop B

$$\begin{aligned}1 \text{ set of 20 masks} &- 25.9 + 60\% \times 25.9 \\ &= 41.44\end{aligned}$$

$$\begin{aligned}5 \text{ sets of 20 (100)} &- 41.44 \times 5 \\ &= 207.20\end{aligned}$$

Shop C

$$\begin{aligned}1 \text{ set of 9 masks} &- 3.8 \times 5 \\ &= 19\end{aligned}$$

$$\begin{aligned}11 \text{ sets of 9 masks (99 Masks)} &- 11 \times 19 \\ &= 209\end{aligned}$$

$$\begin{aligned}100 \text{ masks} &- 209 + 3.8 \\ &= 212.80\end{aligned}$$

Ans: Store B

Ans: \$207.20

BP~112