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 A

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 1 – 5	5	

* This paper **consists of 5 printed pages** altogether (including the cover page).

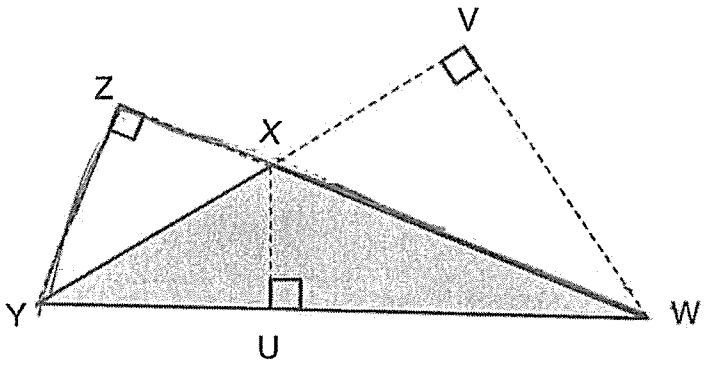
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Questions **1** to **5** carry 1 mark each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write your answer in the brackets provided.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(5 marks)

1. In the figure, WX is the base of the triangle WXY. Which line represents its height?



(1) UX

(2) VW

(3) XY

(4) YZ

( )

2. Kim has some red, blue and green beads. The ratio of the number of red beads to the number of blue beads is 1 : 2. The number of green beads to the total number of blue and red beads is 1 : 4. What is the ratio of the number of red beads to the number of blue beads to the number of green beads?

(1) 1 : 2 : 1

(2) 1 : 2 : 4

(3) 4 : 8 : 3

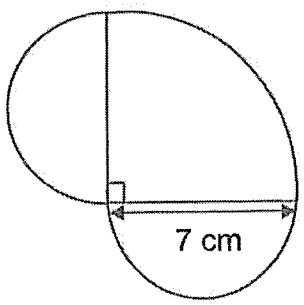
(4) 8 : 4 : 3

( )

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3. The figure below is made up of a quadrant and 2 identical semicircles.

Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$)



(1) 27.5 cm

(2) 33 cm

(3) 44 cm

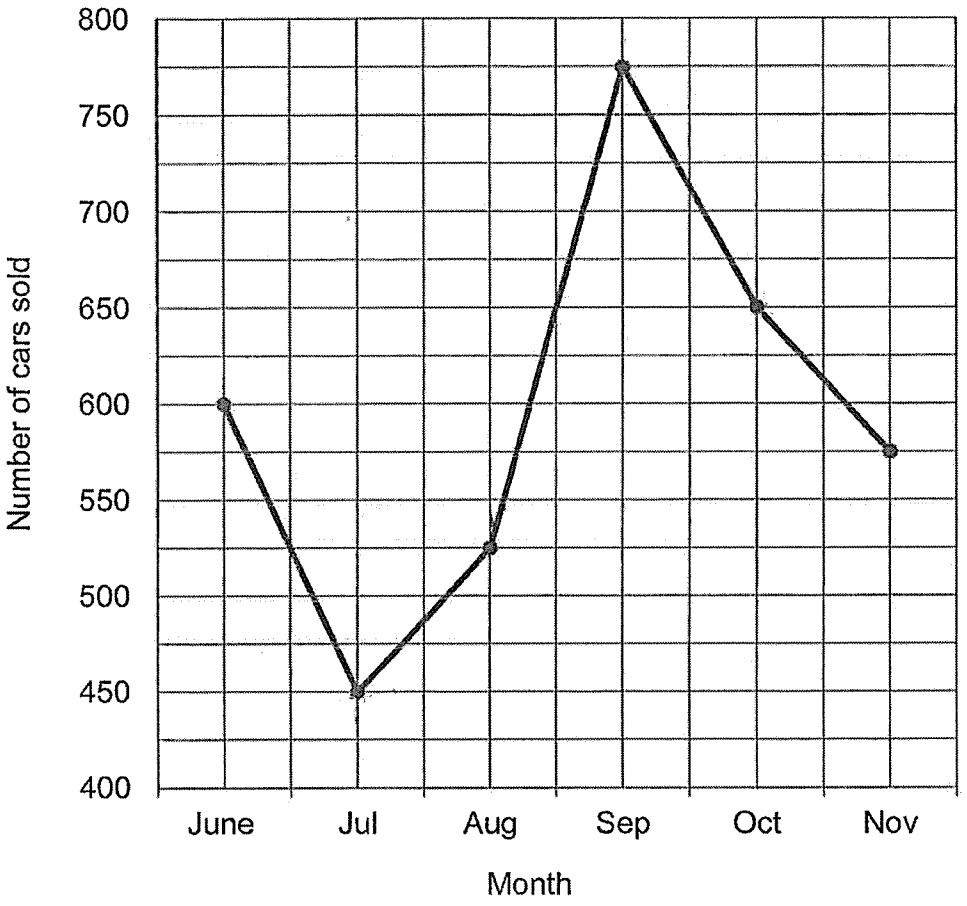
(4) 49.5 cm

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4. The line graph below shows the number of cars sold in the showroom from June to November.

What was the percentage decrease in sale from June to July?

Number of cars sold from June to November



(1) 25%

(2) $33\frac{1}{3}\%$

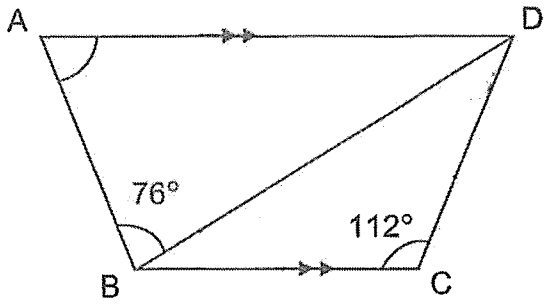
(3) 75%

(4) 150%

( )

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5. In the figure below, ABCD is a trapezium. AD is parallel to BC and BC = CD. ∠ABD = 76° and ∠BCD = 112°. Find ∠BAD.



(1) 34°

(2) 68°

(3) 70°

(4) 104°

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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.
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6. The use of a calculator is not allowed.

Questions	Maximum Mark	Marks Obtained
Q 6 – 14	15	

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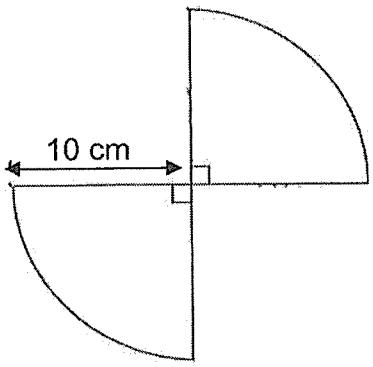
Questions **6** to **8** carry 1 mark each. Questions **9** to **14** carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(15 marks)

Do not write in this space

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



Ans: _____cm

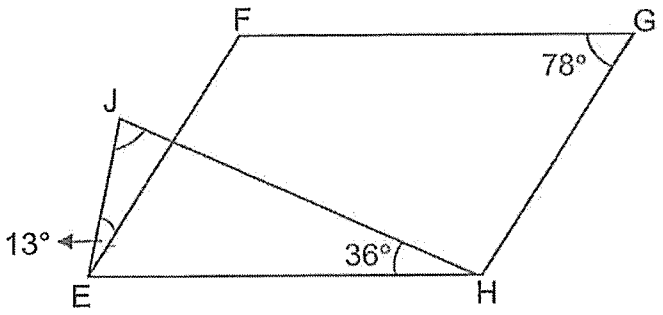
7. In a box, 25% of the keychains are from Thailand and 45% of the keychains are from Singapore. The remaining 45 keychains are from other countries. How many keychains are there in the box?

Ans: _____

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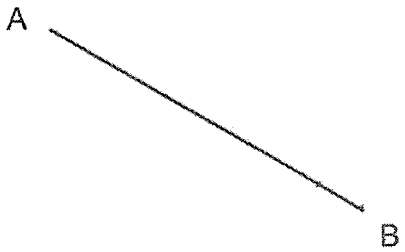
8. The figure below is made up of a parallelogram EFGH and a triangle EJH. $\angle FGH = 78°$, $\angle JHE = 36°$ and $\angle JEF = 13°$.
Find the value of $\angle EJH$.

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.



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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?

Do not write in this space

Ans: _____

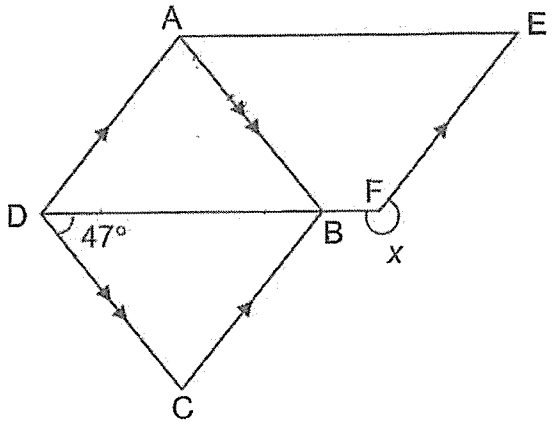
11. Kylie received a fixed sum of salary monthly. In January, she saved 20% of her salary. Her savings in February increased by 40%. Her total savings for the 2 months was $480. What was the sum of salary given to her monthly?

Ans: $ _____

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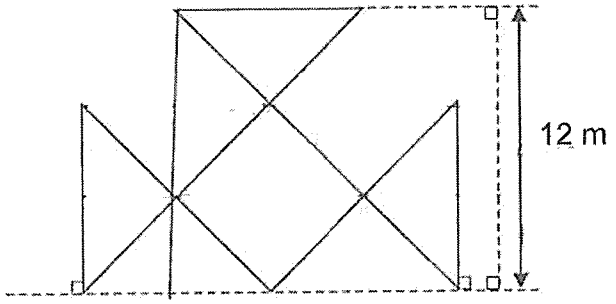
12. In the figure below, ABCD is a rhombus and AEFD is a parallelogram. $\angle CDB = 47°$. Find $\angle x$.

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

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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?

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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).

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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.

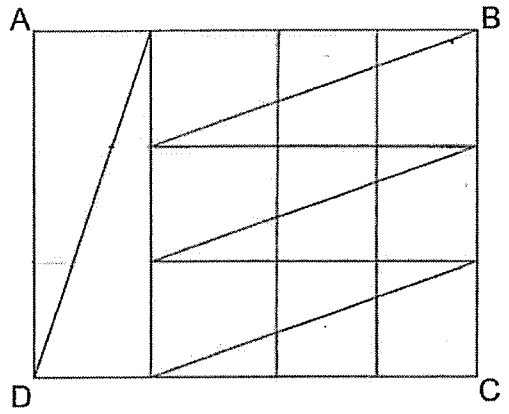
All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

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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: _____ cm^2 [2]

(Go on to the next page)

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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?

Do not write in this space

Ans: _____ [3]

(Go on to the next page)

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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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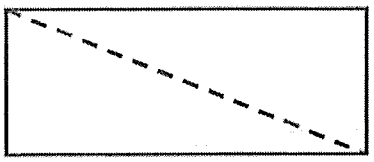


Figure 1

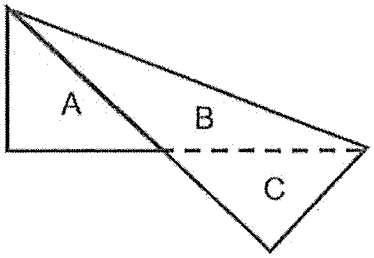


Figure 2

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

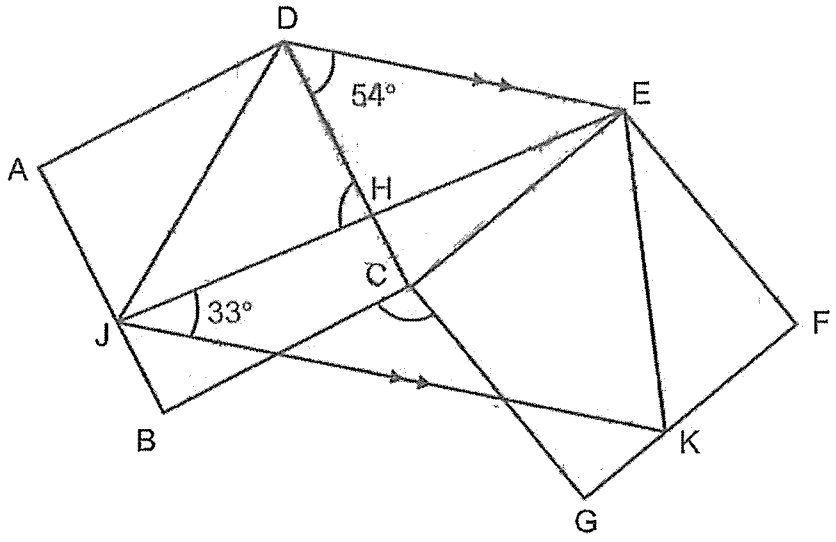
Ans: _____ [3]

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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. $\angle CDE = 54°$ and $\angle EJK = 33°$

Do not write in this space



(a) Find $\angle BCG$.

Ans: _____ [2]

(b) Find $\angle DHJ$

Ans: _____ [2]

(Go on to the next page)

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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?

Do not write in this space

Ans: _____ [4]

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

Do not write 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]

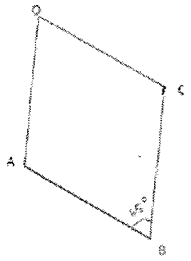
End of paper
Have you checked your work?

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

Q 1	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)	54cm2
Q18)	a)108° b)87°
Q19)	**344**
Q20)	$207.20

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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?

Jan → 20%

Feb → 140% of 20 (Jan)
= 28

Jan and feb → 20 + 28
= 48

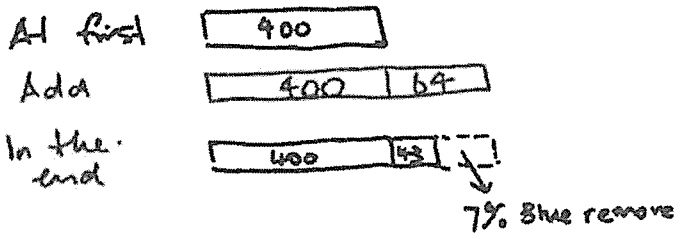
48% of Sal $ → 480

1% of Sal $ → 10

Salary → 10 × 100
= **$1000**

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% of Blue → 464 – 443

= 21

1% of blue → 21 ÷ 7

= 3

No of blue → 93 × 3

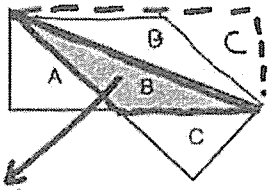
= **279**

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



(lost area) overlap Figure 2

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

A + B + B + C ——— 9 units

A + B + C ——— 5 units

B ——— (9 – 5) units

= 4 units

4 units = 24

1 unit = 24 ÷ 4

= 6

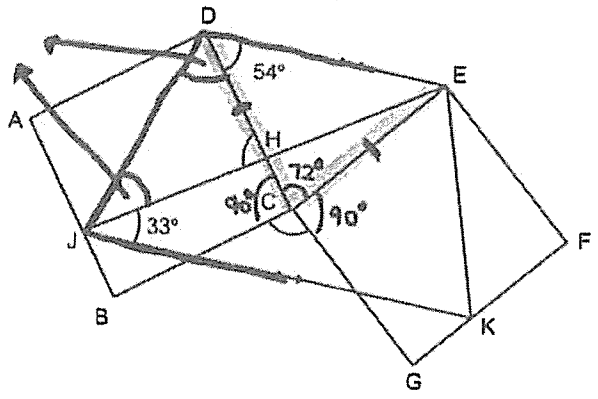
9 units = 6 x 9

= 54

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Q18

Sum = 93° "C-rule"



Find ∠BCG.

Triangle CDE is isosceles
∠DCE = 180 – 54×2 = 72
∠BCG = 180 – 72 or 360 – 180 – 72
= 108

Find ∠DHJ

Sum of ∠DJH and ∠HDJ = 180 – 54 – 33
= 93
∠DHJ = 180 – 93
= 87

Q19

	X	Y	Z
In the end	1u	2u	1u
Work backwards	−120	×2	$\frac{4}{5}T \to 1u$ $\frac{1}{5}T \to \frac{1}{4}u$ $\therefore -\frac{1}{4}u$
At first	1u+120	1u	$1\frac{1}{4}u$ or 1.25u

Z

Total at first → (1u + 120) + 1u + 1.25u
= 3.25u + 120
3.25u → 848 − 120
= 728
1u → 224
X (at first) → 224 + 120
= 344.

Q20

Shop A
100 × 2.1 = 210

Shop B
1 set of 20 masks — 25.9 + 60% × 25.9
= 41.44

5 sets of 20 (100) – 41.44 × 5
= 207.20

Shop C
1 set of 9 masks — 3.8 × 5
= 19
11 sets of 9 masks (99 Masks) — 11 × 19
= 209
100 masks ——— 209 + 3.8
= 212.80

Ans: Store B
Ans: $207.20

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