



ST. MARY HIGH SCHOOL MUHAISNAH
MATHS 2025-2026
Y8 S1 UNIT TEST 3 REVISION PAPER
KPI 5, 6, 8 and 11

NAME

CLASS

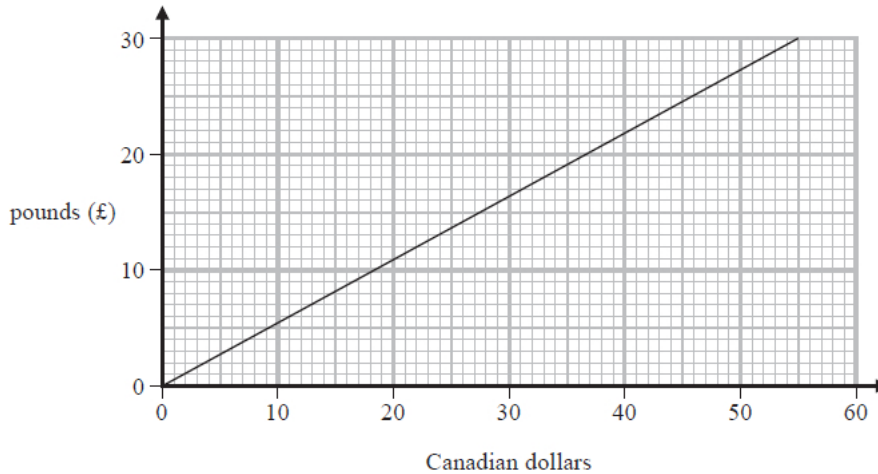
DATE

TOTAL: /25

General instructions: Read and understand the questions carefully. Show complete working out.

KPI 5, 8 & 11: _____ / 15

Q1. Here is a conversion graph to change between Canadian dollars and pounds (£)



(a) Use the graph to change

(i) 20 Canadian dollars to pounds (£)

£ 11

(ii) £30 to Canadian dollars.

55 Canadian dollars
(2)

Alana is on holiday in London and is going to Paris.
She is going to book a hotel in Paris.
She knows that

1 pound (£) = 1.2 euros

(b) Change 285 euros to Canadian dollars.

$$285 \rightarrow 285 \div 1.2 = \underline{\underline{\pounds 237.5}}$$

Reference:

$$\div 11 \left(\begin{array}{l} 20 \text{ CD} = \pounds 11 \\ 1.82 \text{ CD} = \pounds 1 \end{array} \right) \div 11$$

Final Answer:

$$237.5 \times 1.82$$

$$432.25$$

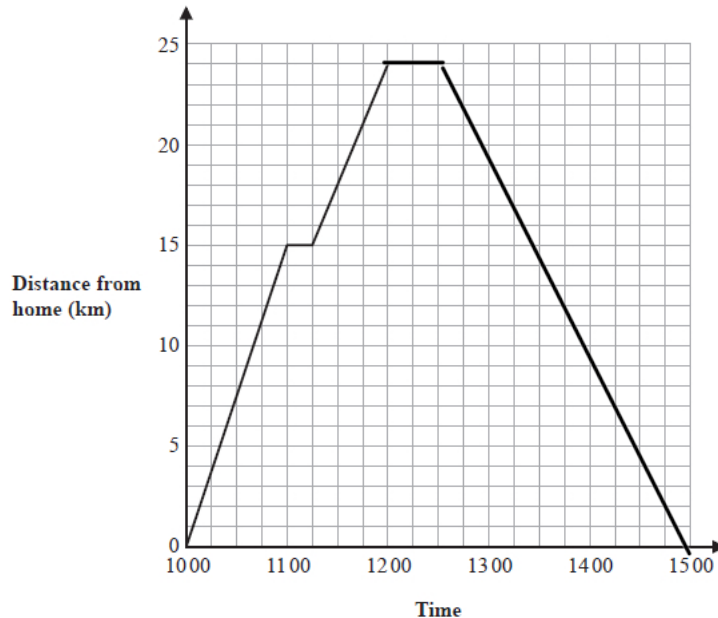
Canadian dollars
(3)

(Total for question = 5 marks)



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- Q2.** Lara left her home at 10:00 to cycle to a park.
On her way to the park, she stopped at a friend's house and then continued her journey to the park.
Here is the distance-time graph for her journey to the park.



- (a) On her journey to the park, did Jalina cycle at a faster speed before or after she stopped at her friend's house?

Give a reason for your answer.

Before she stopped at her friends house
because it is steeper.

(1)

Lara stayed at the park for 30 minutes.

She then cycled, without stopping, at a constant speed of 10 km/h from the park back to her home.

- (b) Show all this information on the distance-time graph. Done

(2)

- (c) Work out Lara's average cycling speed, in kilometres per hour, for the complete journey to the park and back.

Do **not** include the times when she was not cycling in your calculation.

Give your answer correct to 1 decimal place.

24 km (going to the park)
+ 24 km (going back home)
48 km - Distance

$$S = \frac{D}{T} \quad S = \frac{48 \text{ km}}{4.15 \text{ hrs}} = 11.57$$

11.6

..... km/h

(3)

1 hr 45 mins
+ 2 hrs 24 mins
4 hrs 9 mins - Time (4.15 hrs)

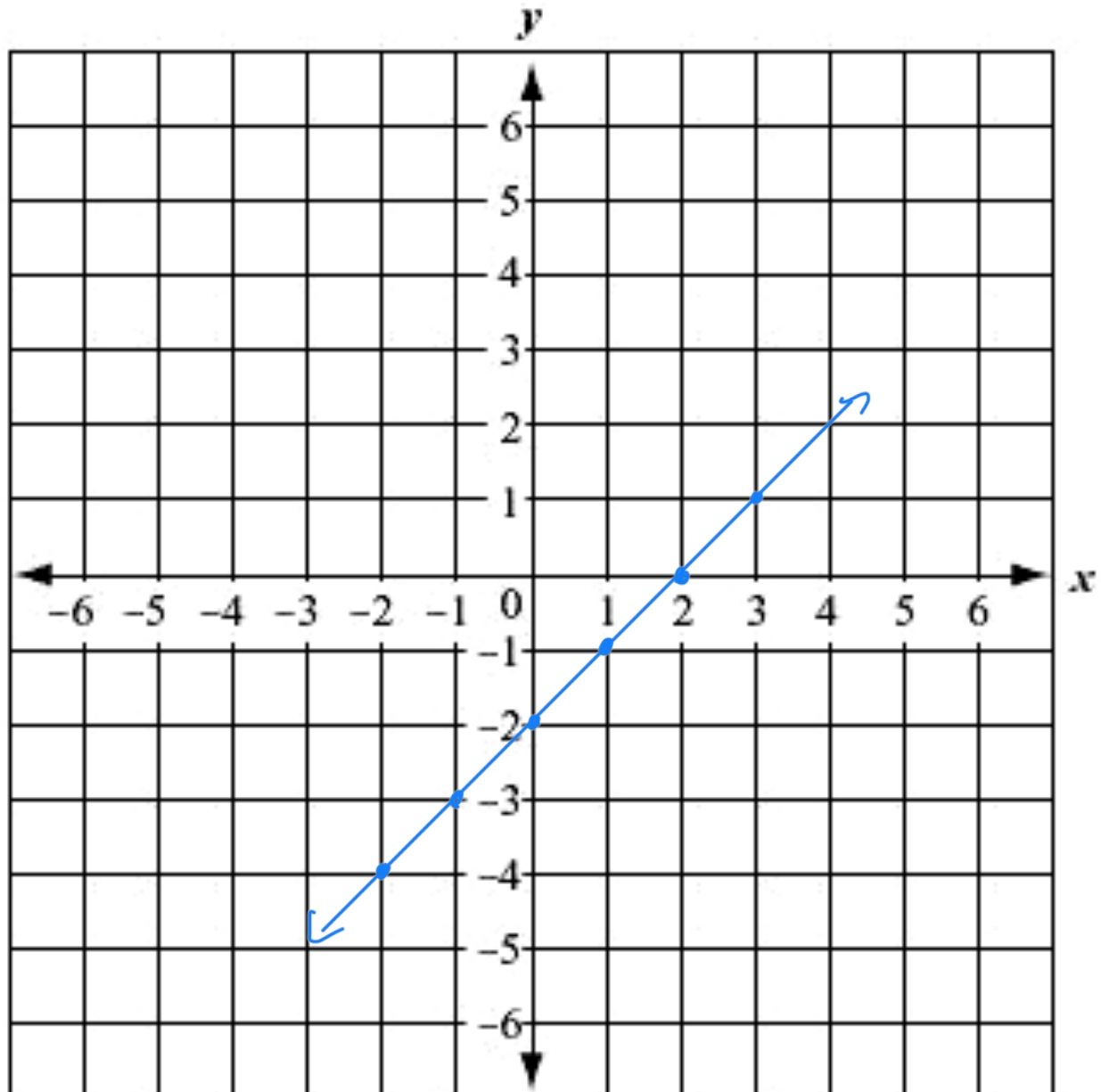
(Total for question = 6 marks)



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Q3. On the grid, draw the graph of $y = x - 2$ from $x = -2$ to $x = 2$.

x	-2	-1	0	1	2
y	-4	-3	-2	-1	0



(Total for question = 4 marks)



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KPI 6: _____ / 10

Q4. The diagram shows a trapezium.

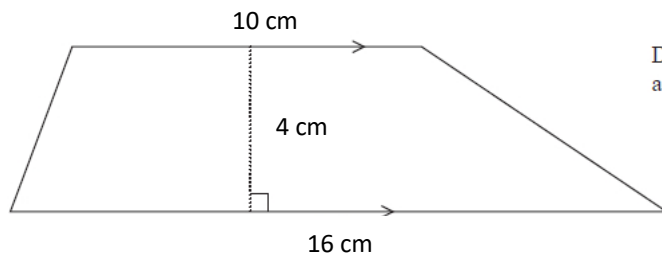


Diagram NOT
accurately drawn

Work out the area of the trapezium.

$$A_T = \frac{a+b}{2} \times h$$

$$A_T = \frac{10+16}{2} \times 4$$

$$A_T = \frac{26}{2} \times 4$$

$$A_T = 13 \times 4$$

$$A_T = 52 \text{ cm}^2$$

52

..... cm²

(Total for question = 2 marks)

Q5. Here is a rectangle made from 12 square tiles.

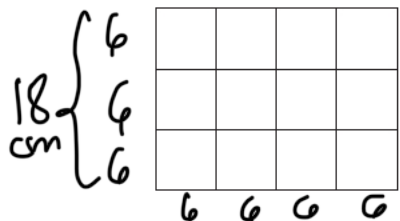


Diagram NOT
accurately drawn

The perimeter of each tile is 24 cm.

Work out the area of the rectangle. 24 cm

$$A = \text{Length} \times \text{width}$$

$$A = 24 \times 18$$

$$A = 432 \text{ cm}^2$$

432

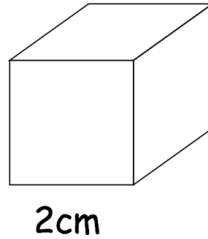
..... cm²

(Total for question = 3 marks)



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Q6. Shown below is a cube with side length, 2cm.



a. How many faces has this cube?

6

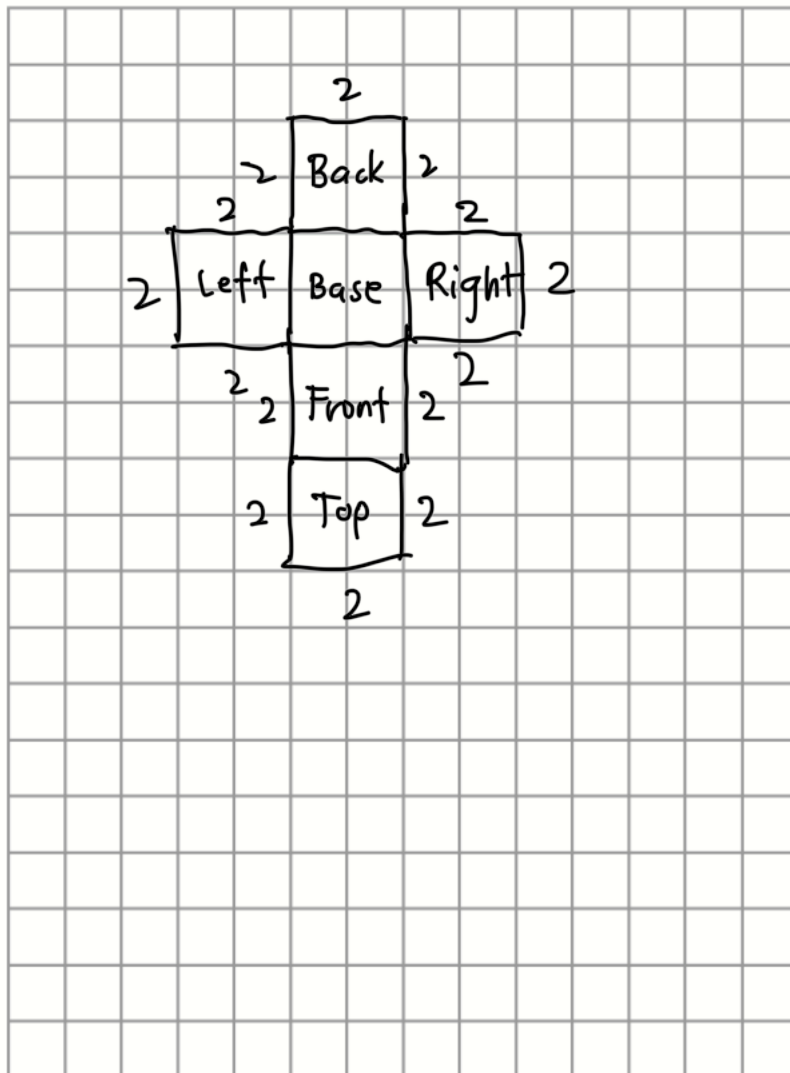
(1)

b. How many edges has this cube?

12

(1)

c. Draw a net for the cube on the centimetre square grid below.



(3)

(Total for question = 5 marks)

END