

DO NOT WRITE IN THIS AREA

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Answer ALL TWENTY FOUR questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Here is a list of numbers.

1	17	21	25	26	31	39	64
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From this list, write down

(a) an even number

.....
(1)

(b) a multiple of 3

.....
(1)

(c) a prime number

.....
(1)

(d) a cube number

.....
(1)

(Total for Question 1 is 4 marks)

2 (a) Change 3 litres into millilitres.

.....millilitres
(1)

(b) Change 6500 grams into kilograms.

.....kilograms
(1)

(Total for Question 2 is 2 marks)



- 3 Paula asks 16 members of her class the number of pets they each have. Here are her results.

1 2 2 4 0 1 2 1
3 3 4 1 1 0 3 2

- (a) Complete the frequency table for her results.

Number of pets	Tally	Frequency
0		
1		
2		
3		
4		

(2)

- (b) Write down the mode for the number of pets.

.....
(1)

- (c) Work out the range for the number of pets.

.....
(1)

(Total for Question 3 is 4 marks)



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4 The table gives the minimum temperature for January 2018 in each of six cities.

City	Minimum temperature (°C)
Barcelona	3
Donetsk	-10
Mexico City	-1
Mombasa	22
New York	-15
Sydney	15

(a) Which of these six cities has the lowest minimum temperature?

.....
(1)

(b) Work out the difference between the minimum temperature of Donetsk and the minimum temperature of Sydney.

.....°C
(1)

The minimum temperature in Edmonton for January 2018 was 50°C less than the minimum temperature in Mombasa for January 2018

(c) Work out the minimum temperature in Edmonton for January 2018

.....°C
(1)

(Total for Question 4 is 3 marks)



5 (a) Write these decimals in order of size.
Start with the smallest decimal.

0.9 0.035 0.003 0.539 0.5

.....
(1)

(b) Write 0.6 as a percentage.

..... %

(1)

(c) Write $\frac{60}{7}$ as a mixed number.

.....
(1)

(d) Work out the difference between $\frac{19}{20}$ and 0.68
Give your answer as a decimal.

.....
(2)

(Total for Question 5 is 5 marks)



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6 Here are the first five terms of a number sequence.

3 7 11 15 19

(a) Write down the next term of the sequence.

.....
(1)

(b) Explain how you worked out your answer.

.....
(1)

(c) Find the first number greater than 70 that is in the sequence.

.....
(2)

Ada says,

“96 is a number in the sequence”

(d) Is Ada correct?

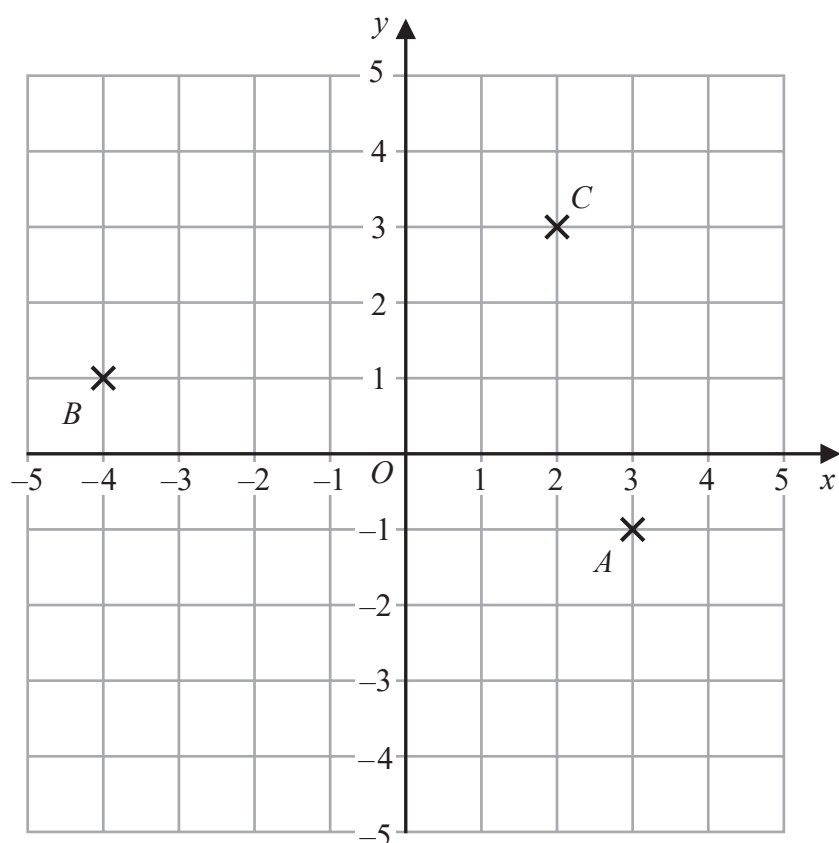
You must give a reason for your answer.

.....
.....
(1)

(Total for Question 6 is 5 marks)



- 7 The diagram shows three points, A , B and C , marked on a grid.



- (a) Write down the coordinates of point A .

(.....,)
(1)

The coordinates of the point D are $(-2, -4)$

- (b) On the grid, mark with a cross (\times) the position of D .
Label the cross D .

(1)

- (c) Find the coordinates of the midpoint of BC .

(.....,)
(2)

- (d) On the grid, draw the line with equation $x = 4$

(1)

(Total for Question 7 is 5 marks)



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8 Lucas is going on a country walk.

Lucas works out how long each part of his walk will take.
This information is shown in the following table.

	Time taken
Walk from home to Village A	20 minutes
Walk from Village A to Village B	35 minutes
Stop for lunch in Village B	1 hour 15 minutes
Walk from Village B to home	30 minutes

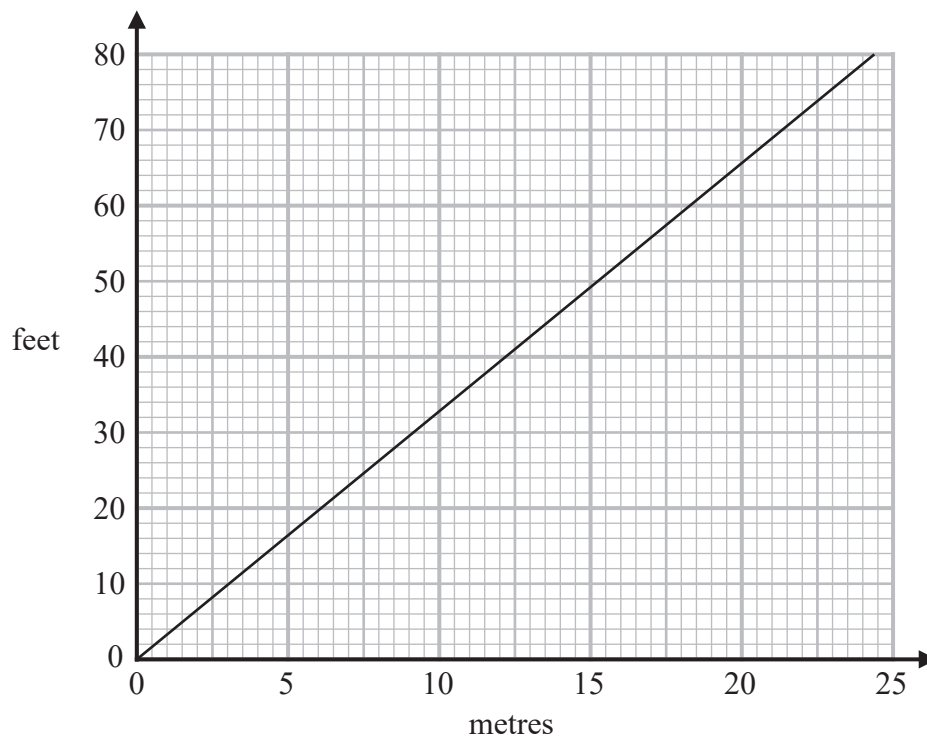
Lucas leaves home at 11 10

At what time will Lucas get home?

.....
(Total for Question 8 is 3 marks)



9 Below is a conversion graph to change between metres and feet.



(a) Use the graph to change

(i) 10 metres to feet,

.....feet

(ii) 50 feet to metres.

.....metres

(2)

Joss lives 820 metres above sea level.

Nicky lives 2850 feet above sea level.

(b) Which is the greater, 820 metres or 2850 feet?

You must show how you get your answer.

(2)

(Total for Question 9 is 4 marks)

