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Answer ALL TWENTY FIVE questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1 (a) Write these numbers in order of size.
Start with the smallest number.

171 490 84 105 233

.....
(1)

- (b) Write in figures the number five thousand, one hundred and two.

.....
(1)

- (c) Write down the value of the 3 in the number 7439

.....
(1)

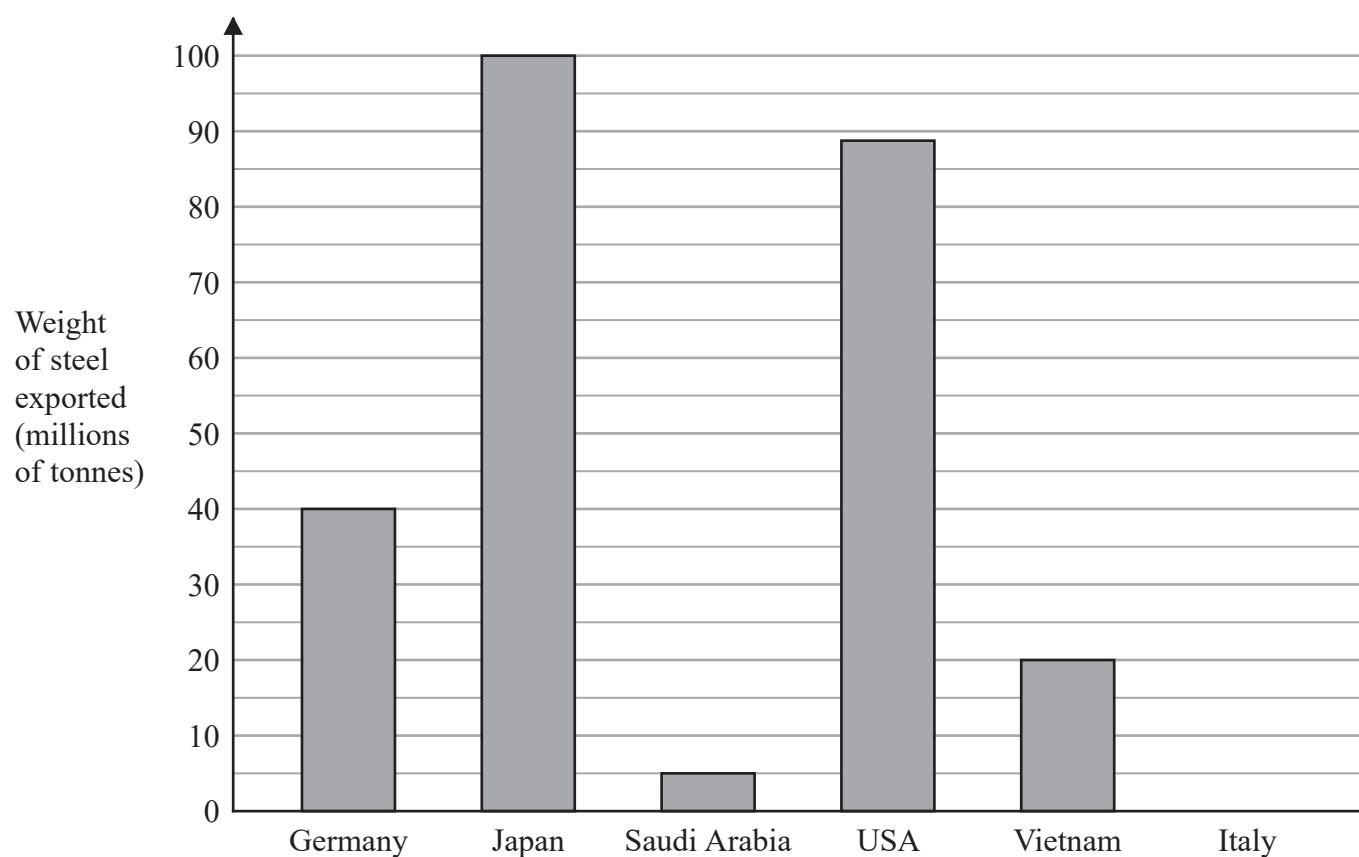
- (d) Write the number 651 correct to the nearest hundred.

.....
(1)

(Total for Question 1 is 4 marks)



- 2 The bar chart shows information about the weight of steel, in millions of tonnes, exported by each of five countries in 2019



Using the information in the bar chart,

- (a) write down the weight of steel exported by Germany,

..... million tonnes
(1)

- (b) write down the country that exported 88 million tonnes of steel,

.....
(1)

- (c) work out the difference between the weight of steel exported by Japan and the weight of steel exported by Saudi Arabia.

..... million tonnes
(1)

Italy exported 25 million tonnes of steel in 2019

- (d) Draw a bar on the bar chart to show this information.

(1)

(Total for Question 2 is 4 marks)



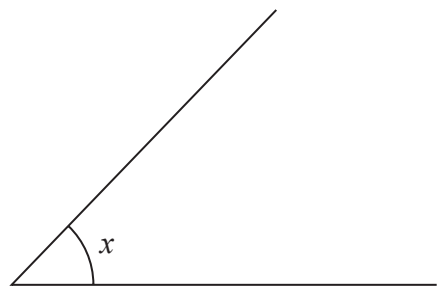
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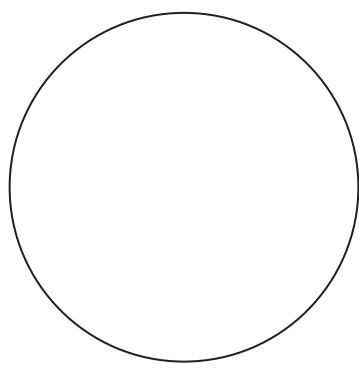
3 (a) Write down the mathematical name for an 8-sided polygon.

.....
(1)



(b) What type of angle is the angle marked x ?

.....
(1)



(c) On the diagram above, draw a chord of the circle.

(1)

(d) Change 3.6 metres into centimetres.

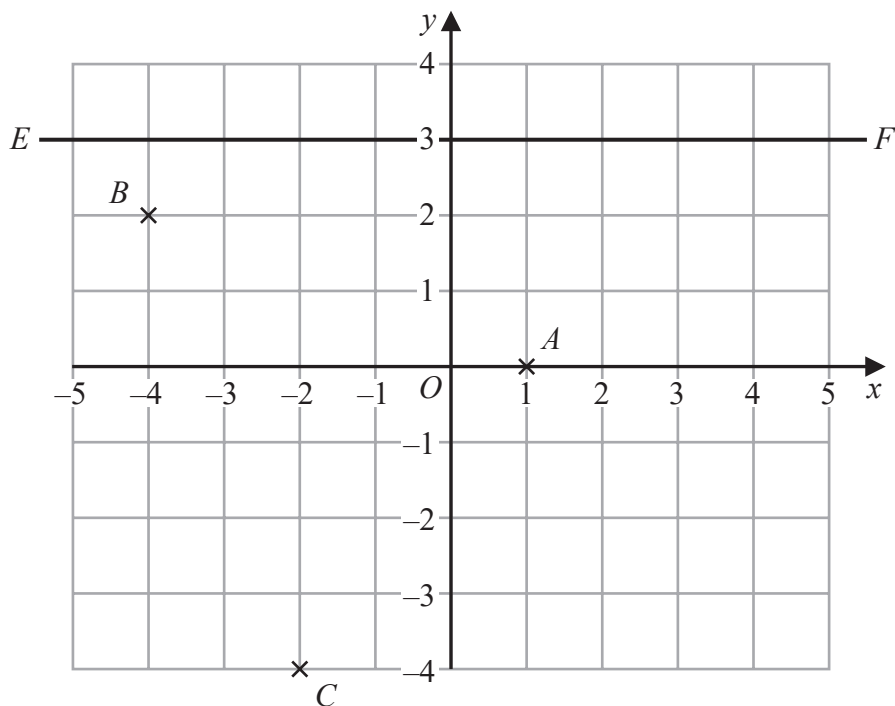
..... cm
(1)

(Total for Question 3 is 4 marks)



P 7 2 4 4 2 A 0 5 2 8

- 4 The diagram shows three points, A , B and C , and a line EF on a grid.



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

(.....,)
(1)

The coordinates of the point D are $(3, -2)$

- (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) Write down the equation of the line EF

.....
(1)

(Total for Question 4 is 5 marks)

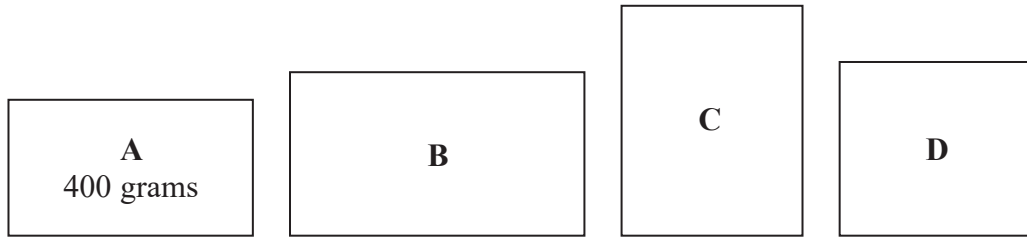


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5 Pat has 4 parcels A, B, C and D



The weight of parcel A is 400 grams.

The weight of parcel B is 350 grams more than the weight of parcel A

The weight of parcel C is twice the weight of parcel A

The total weight of the 4 parcels is 2.5 kilograms.

Work out the weight, in grams, of parcel D

..... grams

(Total for Question 5 is 4 marks)



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

4 10 16 22 28

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

.....
(1)

(ii) Explain how you worked out your answer.

.....
(1)

(b) Work out the 13th term of the sequence.

.....
(1)

(c) Explain why 467 cannot be a number in the sequence.

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

(Total for Question 6 is 4 marks)



7 In a field, there are 60 sheep and 24 cows.

- (a) Find the ratio of the number of sheep to the number of cows.
Give your ratio in its simplest form.

.....
(2)

In a barn, there are only white ducks and brown ducks.
In the barn, the ratio

$$\text{number of white ducks} : \text{number of brown ducks} = 3 : 7$$

- (b) What fraction of the ducks in the barn are white?

.....
(1)

Giles and Sarah share some bales of hay in the ratio 11 : 4

Sarah receives 20 bales of hay.

- (c) Work out how many bales of hay are shared in total.

.....
(3)

(Total for Question 7 is 6 marks)



- 8 Linford is going to take part in an athletics competition.
He can choose one event from List A and one event from List B

List A	List B
Discus (<i>D</i>) Hammer (<i>H</i>) Javelin (<i>J</i>) Shot Put (<i>S</i>)	Long Jump (<i>L</i>) Pole Vault (<i>P</i>) Relay (<i>R</i>)

Write down all the possible combinations Linford can choose.

.....

.....

.....

(Total for Question 8 is 2 marks)

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