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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 The table shows the length, in kilometres, of the coastline of each of five oceans.

Ocean	Length (kilometres)
Arctic	45 389
Atlantic	111 866
Indian	66 526
Pacific	135 663
Southern	17 968

(a) Which of these oceans has the greatest length of coastline?

.....
(1)

(b) Write the number 17968 in words.

.....
(1)

(c) Write the number 66526 correct to the nearest thousand.

.....
(1)

(d) Work out the total length of the coastlines of the Arctic Ocean and the Pacific Ocean.

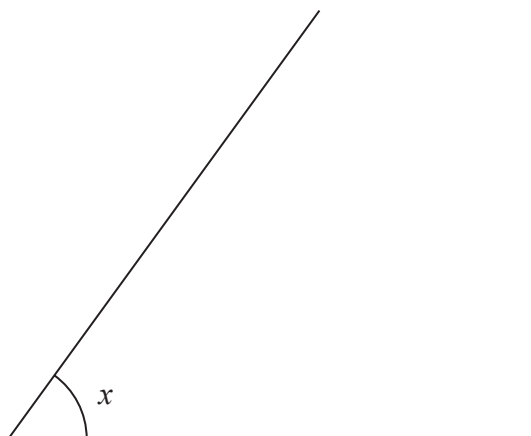
..... kilometres
(1)

(Total for Question 1 is 4 marks)



2 (a) Write down the order of rotational symmetry of a square.

.....
(1)



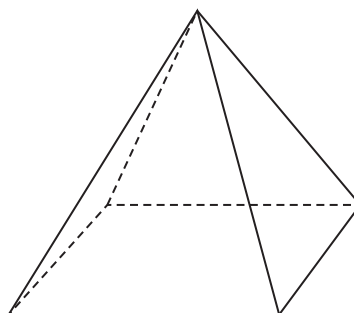
(b) (i) Measure the size of the angle marked x .

.....
o

(ii) Write down the mathematical name of this type of angle.

.....
(2)

Here is a 3-D shape.



(c) (i) Write down the mathematical name of this 3-D shape.

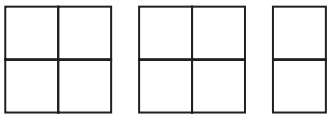
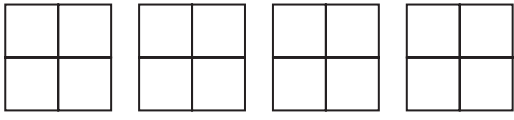
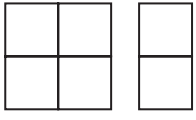
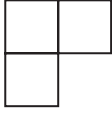
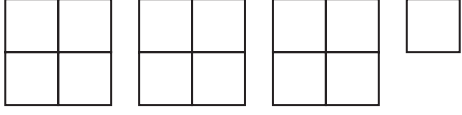
(ii) How many edges does this shape have?

.....
(2)

(Total for Question 2 is 5 marks)



- 3 The pictogram gives some information about the number of parcels delivered by a delivery company on each of five days last week.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

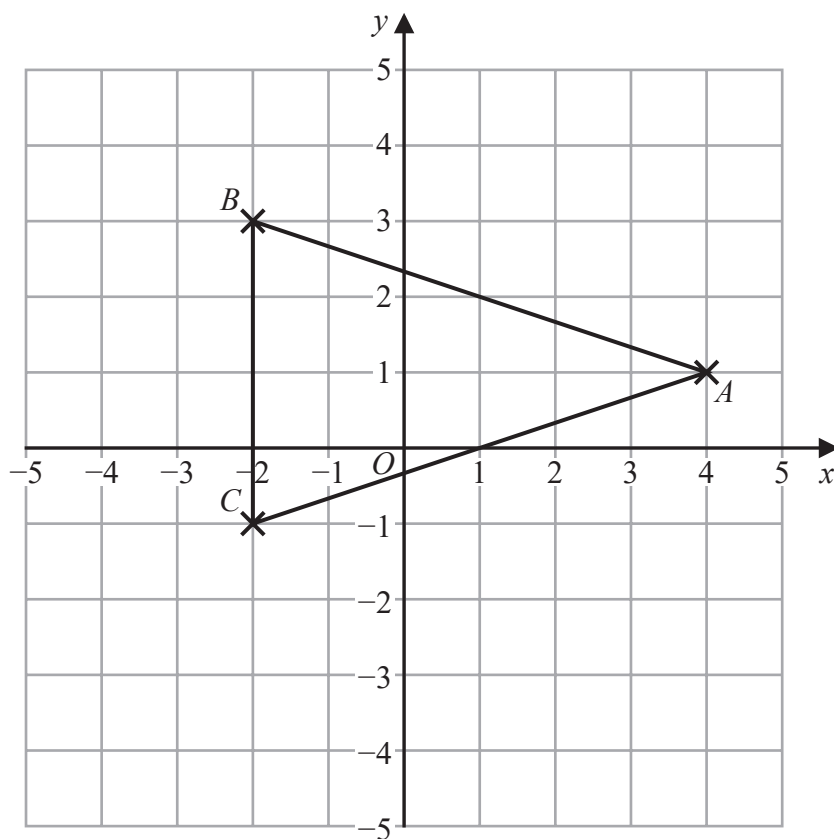
On Monday, the delivery company delivered 20 parcels.

Work out the total number of parcels delivered by the delivery company on these five days.

.....
(Total for Question 3 is 4 marks)



- 4 The points A , B and C , shown on the grid, are the vertices of triangle ABC .



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

(.....,)
(1)

- (b) Write down the mathematical name of triangle ABC .

.....
(1)

The coordinates of point D are $(1, -4)$

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

(1)

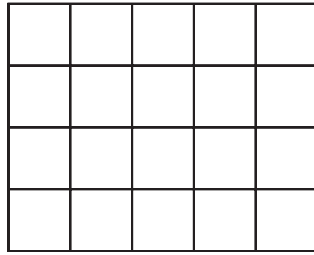
- (d) Find the coordinates of the midpoint of AB .

(.....,)
(2)

(Total for Question 4 is 5 marks)



5 Here is a shape made of squares.



(a) Shade $\frac{3}{5}$ of the shape.

(1)

(b) Which one of these fractions is **not** equivalent to $\frac{4}{7}$?

$$\frac{40}{70} \quad \frac{8}{14} \quad \frac{400}{700} \quad \frac{14}{17} \quad \frac{20}{35}$$

.....
(1)

(c) Write $\frac{3}{10}$ as a percentage.

..... %

(1)

(d) Write $\frac{77}{9}$ as a mixed number.

.....
(1)

$\frac{5}{6}$ of a number is 40

(e) What is the number?

.....
(2)

(Total for Question 5 is 6 marks)



- 6 The cost of a mobile phone in the UK is £350
The cost of an identical mobile phone in India is 28 938 rupees.

The exchange rate is £1 = 91 rupees.

The cost of the mobile phone in the UK is more than the cost of the mobile phone in India.

Work out how much more.

.....
(Total for Question 6 is 3 marks)

- 7 Hassan is going to eat at a restaurant.
Here is the menu at the restaurant.

Starter	Main course
Fruit (F)	Burger (B)
Prawns (P)	Curry (C)
Soup (S)	Lasagne (L)
	Risotto (R)

Hassan is going to choose one starter and one main course from the menu.

List all the possible combinations that Hassan can choose.

.....
.....
.....
(Total for Question 7 is 2 marks)



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8 (a) Simplify $w \times w \times w \times w \times w$

.....
(1)

(b) Simplify $5a \times 3c$

.....
(1)

(c) Simplify $3e + 2f - e + 5f$

.....
(2)

(d) Solve $5x - 7 = x + 12$
Show clear algebraic working.

$x =$
(3)

(Total for Question 8 is 7 marks)

