

Answer ALL TWENTY SIX questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1 The table gives the total area of forest in each of six countries.

Country	Area of forest (km <sup>2</sup> )
South Africa	92 410
Denmark	5 871
El Salvador	2 870
Bahamas	5 150
Jamaica	3 371
Syria	4 910

- (a) Which of these six countries has the least total area of forest?

.....  
(1)

- (b) Write down the value of the 4 in 92 410

.....  
(1)

Two of the six countries each have a total area of forest of 5000 km<sup>2</sup> when rounded to the nearest thousand.

- (c) Write down the name of the two countries.

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

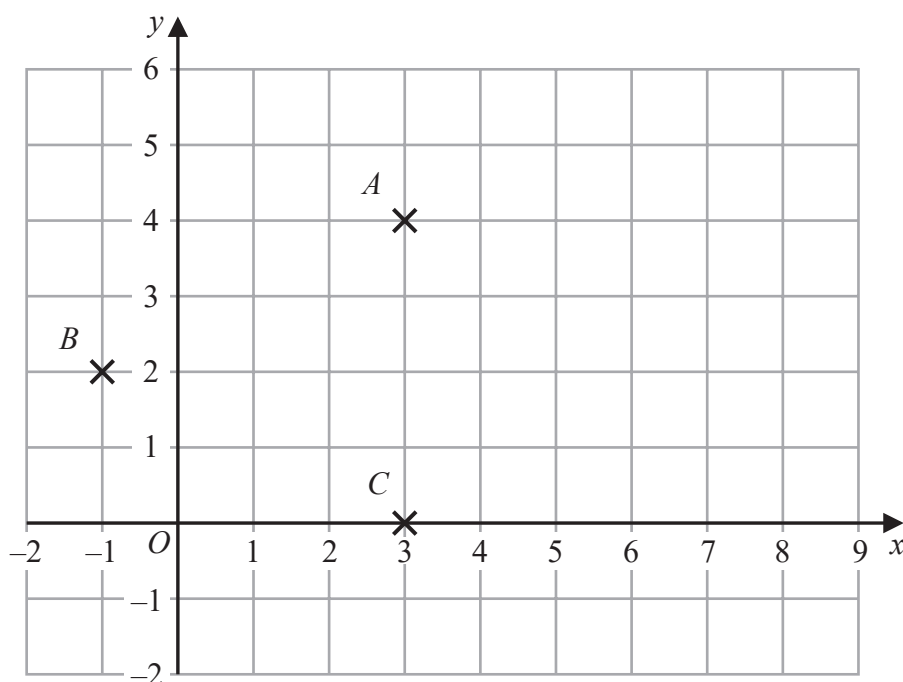
- (d) Write the number 3371 in words.

.....  
(1)

(Total for Question 1 is 4 marks)



- 2 The diagram shows three points,  $A$ ,  $B$  and  $C$ , on a grid.



- (a) Write down the coordinates of

(i) point  $A$

(....., .....) (2)

(ii) point  $B$

(....., .....) (2)

$D$  is the point such that  $ABCD$  is a rhombus.

- (b) On the grid, mark with a cross ( $\times$ ) the point  $D$   
Label this point  $D$

(1)

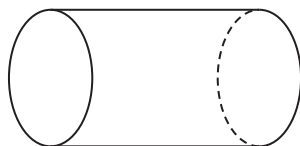
- (c) Find the coordinates of the midpoint of  $AB$

(....., .....) (2)

(Total for Question 2 is 5 marks)

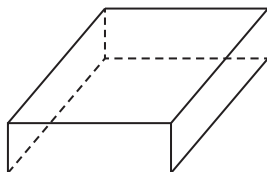


- 3 (a) Write down the mathematical name of this 3-D shape.



.....  
(1)

Here is a solid prism.



- (b) How many edges has the prism?

.....  
(1)

**(Total for Question 3 is 2 marks)**

- 4 Here are the salaries, in thousands of dollars, of seven people.

21    28    29    32    34    34    39

- (a) Find the mode of the salaries.

..... thousand dollars  
(1)

- (b) Find the range of the salaries.

..... thousand dollars  
(1)

**(Total for Question 4 is 2 marks)**



5 (a) Work out  $\frac{4}{5}$  of 80

.....  
(1)

(b) Write  $\frac{9}{20}$  as a decimal.

.....  
(1)

Here are four fractions.

$$\frac{1}{3} \quad \frac{2}{9} \quad \frac{3}{8} \quad \frac{4}{11}$$

When written as a decimal, **one** of these fractions will give a terminating decimal.

(c) Write down the fraction.

.....  
(1)

(d) Write  $\frac{11}{4}$  as a mixed number in its simplest form.

.....  
(1)

Here is a list of four words that can be used to describe numbers.

cube	square	prime	negative
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(e) Use the word from the list to complete the sentence below correctly.

25 is a ..... number

(1)

(Total for Question 5 is 5 marks)



6 Here is a square.

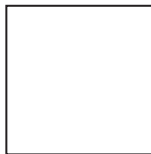


Diagram **NOT** accurately drawn

The perimeter of the square is 24 cm.

The shaded rectangle below is made from 4 of these squares.

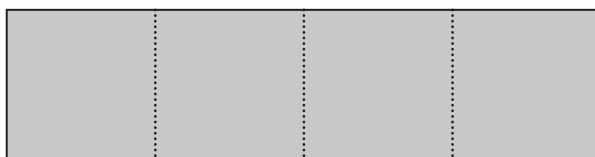


Diagram **NOT** accurately drawn

Work out the perimeter of the shaded rectangle.

..... cm

(Total for Question 6 is 3 marks)



- 7 (a) Write the ratio  $42 : 96$  in its simplest form.

.....  
(2)

There are only apples and pears in a fruit basket so that  
the number of apples : the number of pears =  $4 : 11$

- (b) What fraction of the fruit in the basket is pears?

.....  
(1)

**(Total for Question 7 is 3 marks)**

- 8 Danielle is going to print some business cards.

She uses this rule to work out the total cost, in euros, of printing the business cards.

$$\text{Total cost} = \text{price per card} \times \text{number of cards} + \text{fixed fee}$$

price per card = 0.14 euros

fixed fee = 25 euros

Danielle is going to print 350 business cards.

Work out the total cost of printing the business cards.

..... euros

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



9 Here is a quadrilateral.

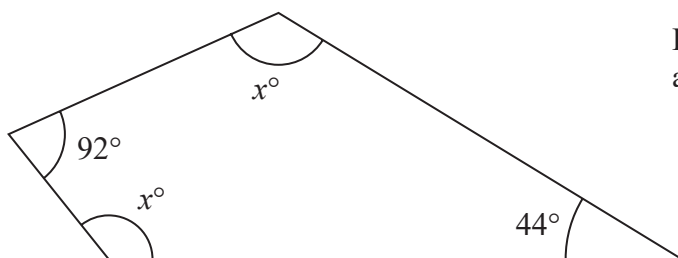


Diagram **NOT**  
accurately drawn

(i) Work out the value of  $x$

$$x = \dots\dots\dots (3)$$

(ii) Give a reason for your answer.

.....  
(1)

**(Total for Question 9 is 4 marks)**



10 Thabisa is organising a trip to the theatre.

The cost of a ticket for each adult is £11.75

The total cost of the tickets for 12 adults and 5 children is £181

Work out the cost of a ticket for each child.

£ .....

(Total for Question 10 is 3 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA





- 11 At school each week, Gabriella has to play a sport on Monday and a sport on Thursday.

The table shows the sports from which she can choose on Monday and the sports from which she can choose on Thursday.

Monday	Thursday
Tennis (T)	Volleyball (V)
Netball (N)	Badminton (B)
Hockey (H)	Tennis (T)

Write down all the possible combinations of these sports that Gabriella can play in one week.

.....

.....

.....

**(Total for Question 11 is 2 marks)**

- 12 Maria is going to make some flapjacks.

Here are four of the ingredients that she will use.

175 g butter  
 175 g syrup  
 175 g sugar  
 330 g oats

What percentage of these four ingredients is oats?  
 Give your answer correct to 3 significant figures.

..... %

**(Total for Question 12 is 3 marks)**

