

Answer ALL TWENTY SEVEN 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

13 14 18 23 30 36

From the numbers in the list, write down

(i) an odd number

.....
(1)

(ii) the multiple of 4

.....
(1)

(iii) the factor of 28

.....
(1)

(Total for Question 1 is 3 marks)

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

0.501 0.51 0.5 0.55

.....
(1)

(b) Write 0.3 as a fraction.

.....
(1)

(c) Write 0.46832 correct to 2 decimal places.

.....
(1)

(Total for Question 2 is 3 marks)



3 Here is a rectangle made from 12 square tiles.

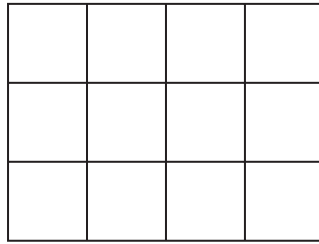


Diagram **NOT**
accurately drawn

The perimeter of each tile is 20 cm.

Work out the area of the rectangle.

..... cm²

(Total for Question 3 is 3 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



- 4 The pictogram gives information about the number of rickshaws sold from a garage each month from January to April.

January	
February	
March	
April	
May	

Key:
represents rickshaws

36 rickshaws were sold in January.

- (a) Complete the key.

(1)

- (b) How many rickshaws were sold in February?

.....
(1)

15 rickshaws were sold in May from the garage.

- (c) Show this information on the pictogram.

(1)

Sandeep makes a profit of 5000 rupees on each rickshaw sold from the garage.

His target profit for January was 200 000 rupees.

- (d) Did Sandeep reach his target profit for January?

You must show your working.

(2)

(Total for Question 4 is 5 marks)



5 (a) Simplify $10a \times b$

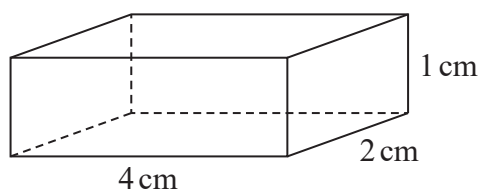
.....
(1)

(b) Solve $n + 3 = 7$

$n =$
(1)

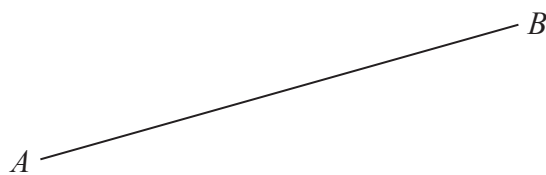
(Total for Question 5 is 2 marks)

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



.....
(1)

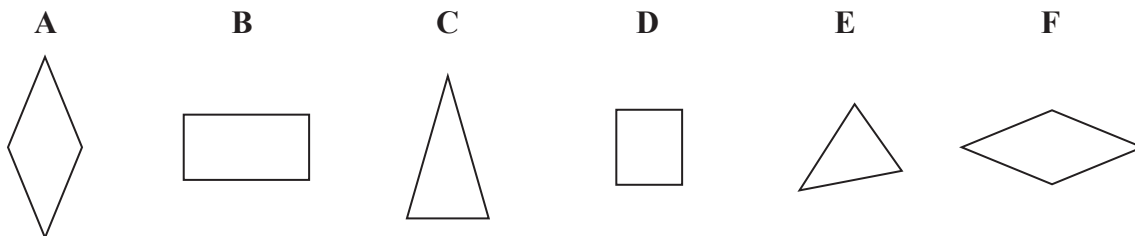
(b)



Measure the length of AB .

..... cm
(1)

Here are six shapes.



Two of these shapes are congruent.

(c) Write down the letters of these two shapes.

..... and
(1)

(Total for Question 6 is 3 marks)



- 7 (a) Complete the number machine by writing the correct output on the dotted line.



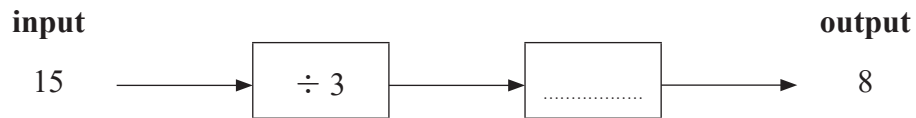
(1)

- (b) Complete the number machine by writing the correct input on the dotted line.



(2)

Here is an incomplete number machine.



- (c) Complete the number machine.

(1)

(Total for Question 7 is 4 marks)

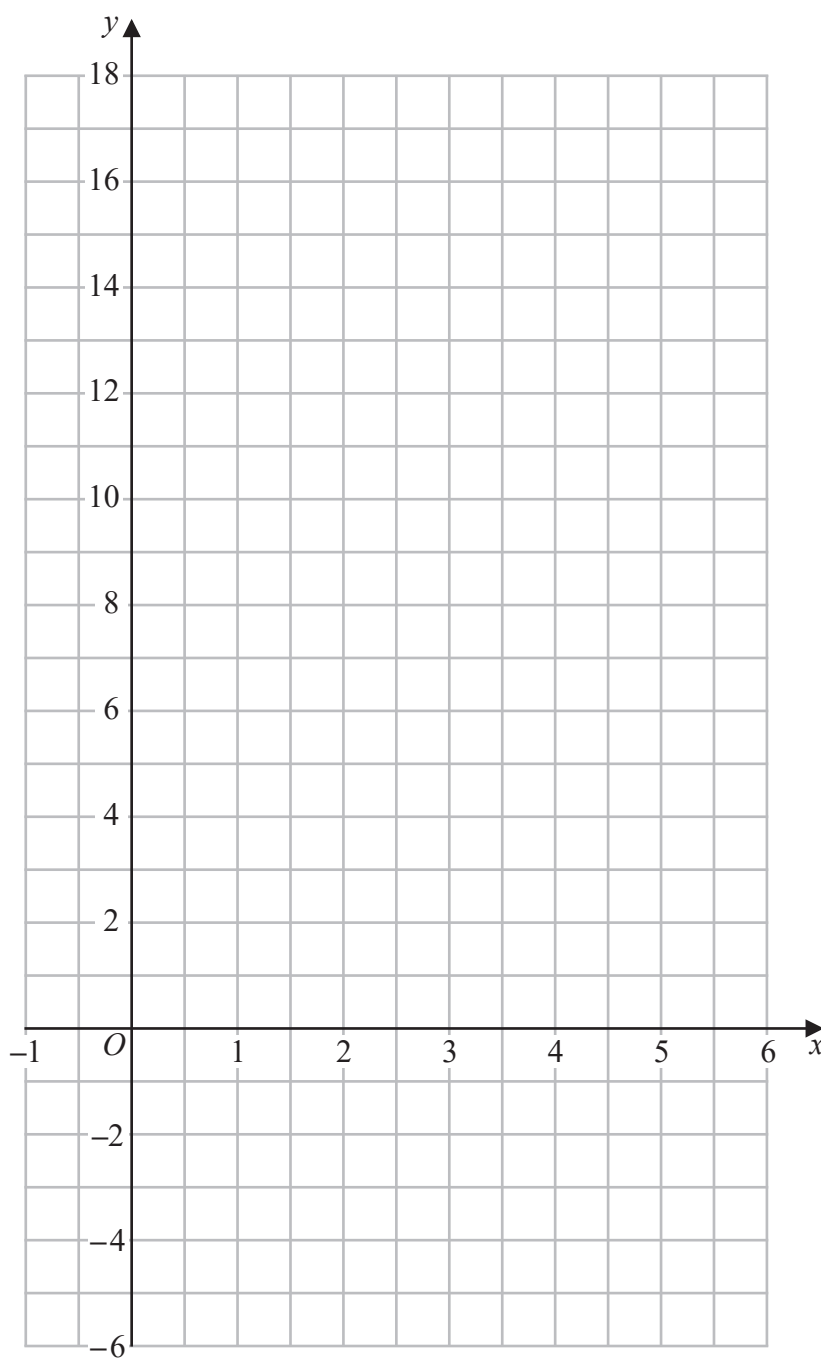


8 (a) Complete the table of values for $y = 3x - 1$

x	-1	0	1	2	3	4	5	6
y		-1		5			14	

(2)

(b) On the grid, draw the graph of $y = 3x - 1$ for values of x from -1 to 6



(2)

(Total for Question 8 is 4 marks)



9 There are 25 pens in a packet.

7 of the pens are green.

10 of the pens are black.

The rest of the pens are red.

Jurgen takes at random a pen from the packet.

(a) Find the probability that

(i) the pen is black,

.....
(1)

(ii) the pen is red.

.....
(1)

Heidi records the number of packets of pens sold in her shop to each customer last Friday.

The table shows information about her results.

Number of packets	Frequency
1	14
2	17
3	15
4	12
5	9

(b) Write down the mode of the number of packets.

.....
(1)

(c) Work out the total number of packets of pens sold last Friday.

.....
(2)

(Total for Question 9 is 5 marks)



10 In a shop,

3 bottles of juice cost \$5.25

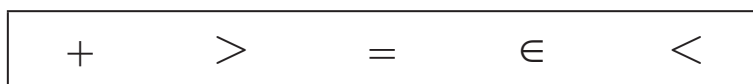
2 bottles of juice and 5 bars of chocolate cost \$9.75

Work out the cost of 5 bottles of juice and 3 bars of chocolate.

\$.....

(Total for Question 10 is 4 marks)

11 Here are five mathematical signs



(a) Write one of these five signs in each box so that each of these statements is true.

(i)

4°C	<input type="text"/>	9°C
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(1)

(ii)

-3°C	<input type="text"/>	-8°C
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(1)

