

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 heights, in metres, of five mountains.

Mountain	Height (metres)
Aconcagua	6961
Makalu	8485
Kilimanjaro	5895
Mont Blanc	4810
Puncak Jaya	4884

- (a) Which of these mountains has the greatest height?

.....  
(1)

- (b) Write the number 5895 in words.

.....  
(1)

- (c) Write down the value of the 8 in 4810

.....  
(1)

- (d) Work out the difference between the height of Aconcagua and the height of Puncak Jaya.

..... metres  
(1)

(Total for Question 1 is 4 marks)



2 Caroline has a bag containing 10 counters.

In the bag there are

- 7 red counters
- 2 blue counters
- 1 green counter

Caroline is going to choose at random a counter from the bag.

impossible      unlikely      evens      likely      certain

(a) Write down the word from the box that best describes the likelihood that Caroline will take

(i) a red counter,

.....

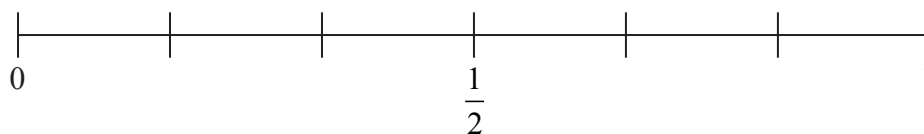
(ii) a yellow counter.

.....

(2)

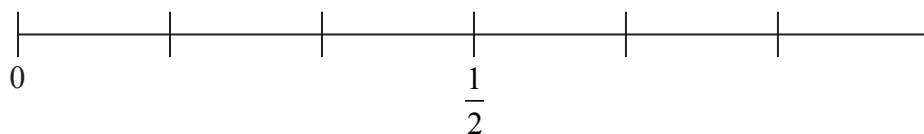
Jamil is going to roll a fair six-sided dice.

(b) On the probability scale, mark with a cross (×) the probability that the dice will land on an odd number.



(1)

(c) On the probability scale, mark with a cross (×) the probability that the dice will land on 2

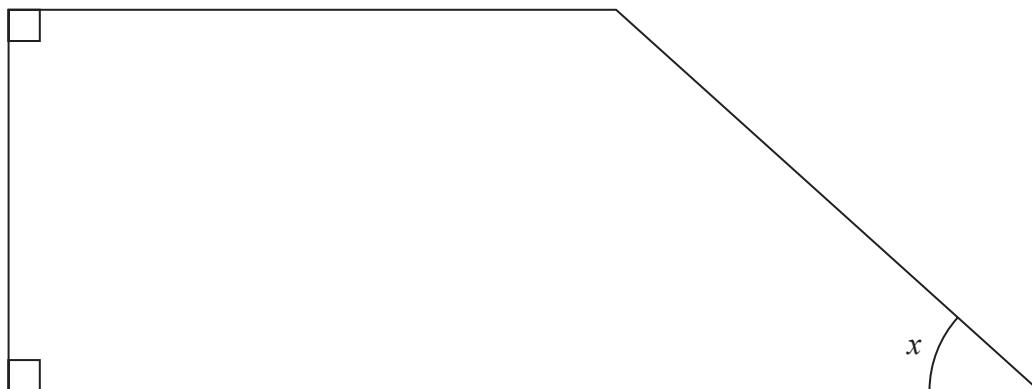


(1)

(Total for Question 2 is 4 marks)



3 Here is a quadrilateral.



(a) What is the mathematical name of this quadrilateral?

.....  
(1)

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

.....  
(1)

(c) On the quadrilateral, mark with arrows ( $\gg$ ) a pair of parallel lines.

(1)

The quadrilateral has four angles.

(d) How many of these angles are right angles?

.....  
(1)

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



4 Iwan is going to buy the following items

- 1 plant pot at £8
- 3 bags of soil at £4.50 for each bag
- some packets of seeds at £1.10 for each packet.

Iwan has a total of £30 to spend on these items.  
He buys as many packets of seeds as he can.

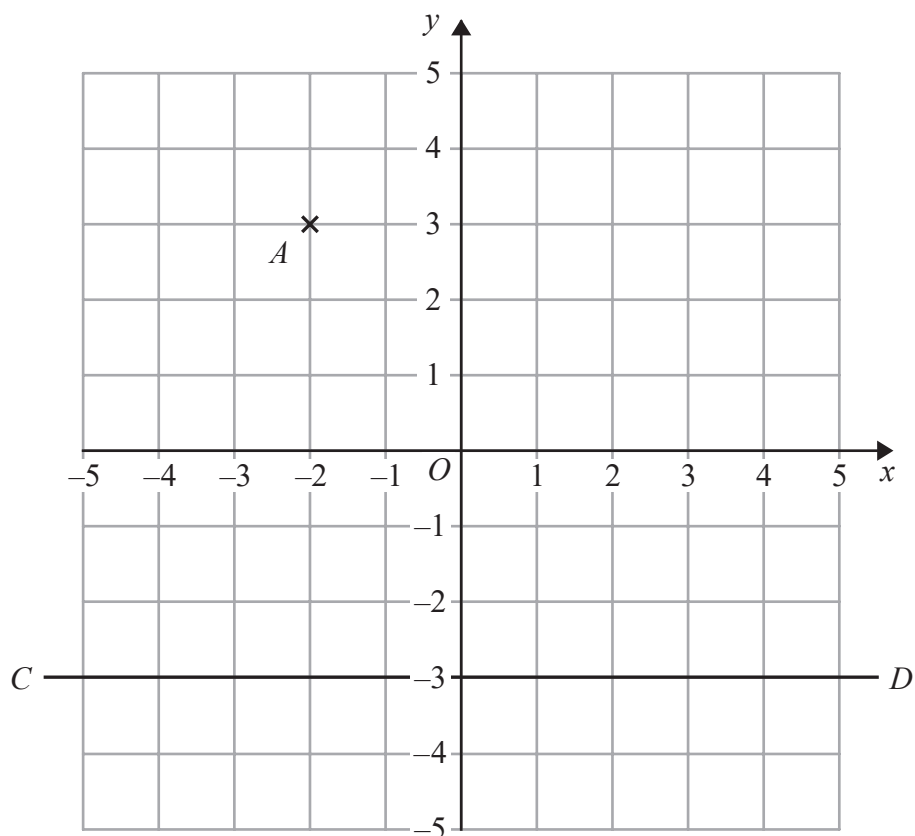
Work out how much change Iwan should receive.

£.....

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



- 5 The diagram shows the point  $A$  and the line  $CD$  on a grid.



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

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

The point  $B$  has coordinates  $(4, -2)$

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

(1)

- (c) Write down an equation of the line  $CD$ .

.....  
(1)

(Total for Question 5 is 3 marks)



6 Here is a shape made of squares.



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

(1)

(b) Write  $\frac{36}{120}$  as a fraction in its simplest form.

(1)

(c) Write these fractions in order of size.  
Start with the smallest fraction.

$$\frac{3}{4} \quad \frac{5}{6} \quad \frac{1}{2} \quad \frac{4}{5}$$

(2)

$\frac{5}{9}$  of a number is 14

(d) What is the number?

(2)

(Total for Question 6 is 6 marks)



- 7 Cate asked the 60 members of a leisure centre how many times they had each visited the leisure centre last week.

The table gives information about her results.

Number of visits	Frequency
0	4
1	12
2	17
3	20
4	7

- (a) Write down the mode of the number of visits.

.....  
(1)

Cate is going to draw a pie chart for the information in the table.

- (b) Work out the size of the angle in the pie chart for the sector representing 1 visit.

.....  
(2)

35% of the 60 members are aged 50 or over.

- (c) Work out how many of the members are aged 50 or over.

.....  
(2)

(Total for Question 7 is 5 marks)

