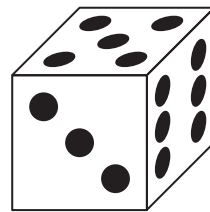
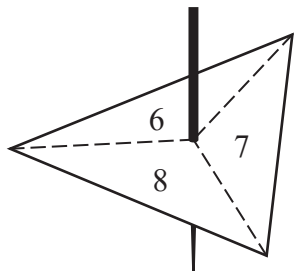


- 9 Grace has a fair spinner and a fair dice.

The spinner is 3-sided and can land on 6, 7 or 8

The dice can land on 1, 2, 3, 4, 5 or 6



Grace spins the spinner once and throws the dice once.

Grace subtracts the number that the dice lands on from the number that the spinner lands on to get her score.

- (a) Complete the table to show all possible scores.
Eight of the scores have been done for you.

		Number on dice					
		1	2	3	4	5	6
Number on spinner	6	5	4	3	2	1	0
	7			4			
	8		6				

(2)

Grace spins the spinner once and throws the dice once.

- (b) Find the probability that her score is less than 6

.....
(1)

- (c) Find the probability that her score is an odd number.

.....
(1)

(Total for Question 9 is 4 marks)



10 The diagram shows a right-angled triangle.

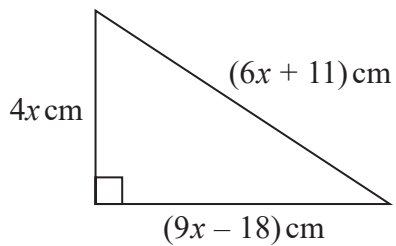


Diagram **NOT** accurately drawn

The perimeter of the triangle is 126 cm.

Work out the area of the triangle.

..... cm^2

(Total for Question 10 is 4 marks)

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11

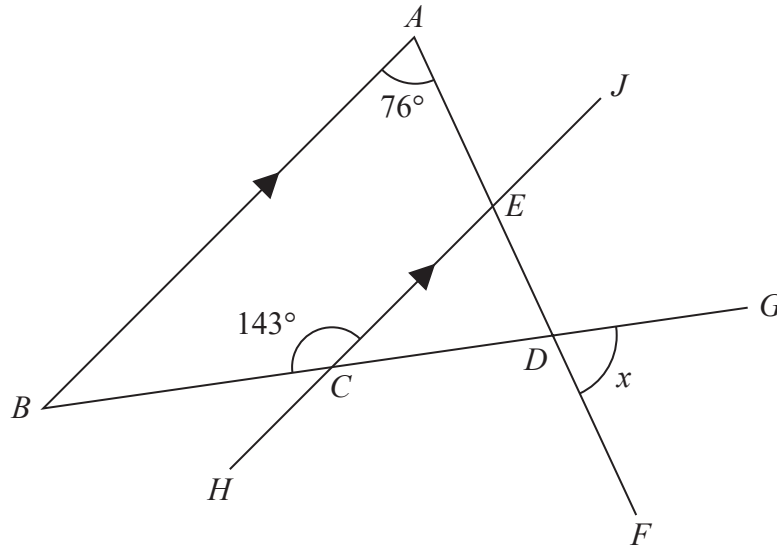


Diagram NOT accurately drawn

ABD is a triangle.

$AEDF$, $BCDG$ and $HCEJ$ are straight lines.

BA is parallel to $HCEJ$.

Work out the size of the angle marked x .

(Total for Question 11 is 3 marks)



P 6 6 2 9 9 A 0 1 3 2 8

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12 Elvira and Anja go on holiday to Sweden and to Finland.

In Sweden, Elvira bought some trainers for 438 Swedish krona.

In Finland, Anja bought the same type of trainers for 44.39 euros.

1 Swedish krona = 0.12 dollars

1 dollar = 0.92 euros

Work out the difference in the cost of the trainers bought by Elvira and the trainers bought by Anja.

Give your answer in dollars.

..... dollars

(Total for Question 12 is 4 marks)



13 The diagram shows the positions of three villages, R , T and W .

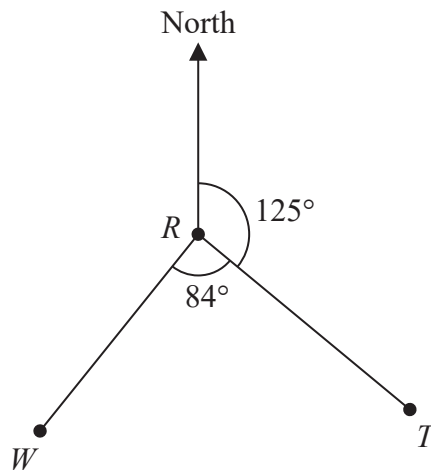


Diagram **NOT** accurately drawn

(a) Work out the bearing of village W from village R .

.....
(1)

(b) Work out the bearing of village R from village T .

.....
(2)

(Total for Question 13 is 3 marks)



14 The diagram shows a trapezium.

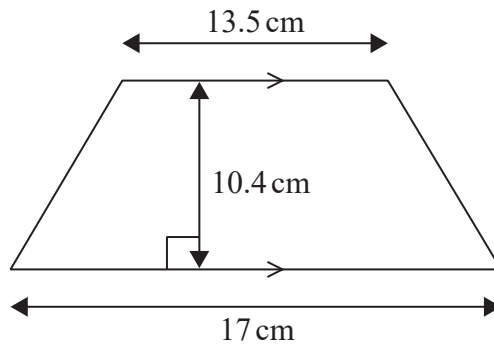


Diagram **NOT** accurately drawn

(a) Work out the area of the trapezium.

..... cm²
(2)

The diagram shows a cuboid.

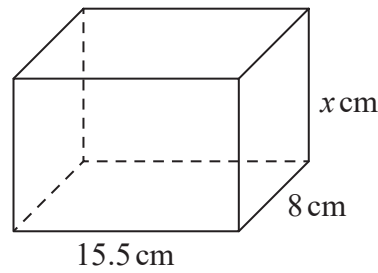


Diagram **NOT** accurately drawn

The volume of the cuboid is 806 cm³

(b) Work out the value of x .

$x =$
(3)

(Total for Question 14 is 5 marks)

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DO NOT WRITE IN THIS AREA

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15 A train takes 6 hours 39 minutes to travel from New Delhi to Kanpur.
The train travels a distance of 429 km.

Work out the average speed of the train.
Give your answer in km/h correct to one decimal place.

..... km/h

(Total for Question 15 is 3 marks)



16 Ava writes down five whole numbers.

For these five numbers

the median is 7

the mode is 8

the range is 5

Find a possible value for each of the five numbers that Ava writes down.

.....
(Total for Question 16 is 3 marks)

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