

Q1.

A bag contains counters that are red, blue, green or yellow.

	red	blue	green	yellow
Number of counters	9	$3x$	$x - 5$	$2x$

A counter is chosen at random.

The probability it is **red** is $\frac{9}{100}$

Work out the probability it is green.

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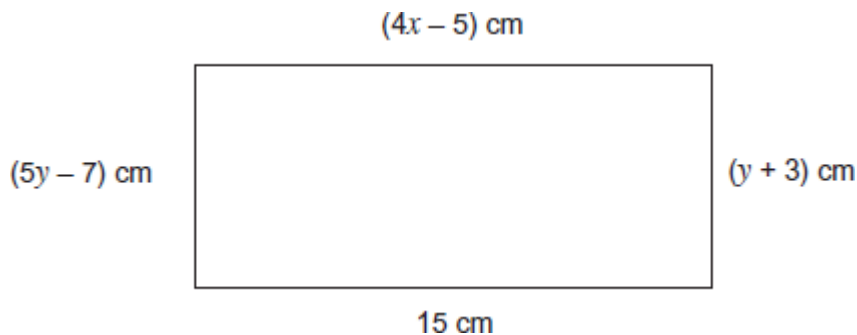
Answer

(Total 4 marks)

Q2.

The diagram shows a rectangle.

Not drawn accurately



(a) Set up and solve an equation to work out the value of x .

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$x =$

(3)

(b) Work out the area of the rectangle.

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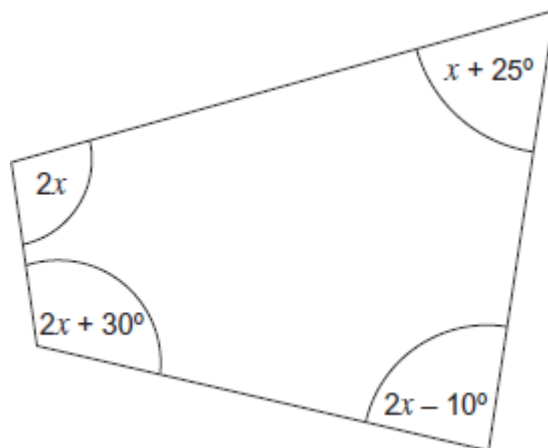
Answer cm²

(5)
(Total 8 marks)

Q3.

The diagram shows a quadrilateral.

Not drawn accurately



Work out the value of x .

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Answer degrees

(Total 4 marks)

Q4.

In a quiz, players can choose to answer **easy** or **hard** questions.

x points are scored for an easy question.

10 **more** points are scored for a hard question.

- (a) Write the points scored for a **hard** question in terms of x .

Answer

(1)

- (b) A player correctly answers 3 easy questions and 2 hard questions.
 She scores 95 points.

Use this information to write an equation in x .

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Answer

(1)

- (c) Solve your equation to find the number of points scored for an **easy** question.

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Answer

(3)
 (Total 5 marks)

Q5.

<p>Flags-4-U</p> <p>Paving slabs £ 4 each + Delivery £ 20</p>
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- (a) Write down a formula for the cost, £C, of buying x paving slabs and having them delivered.

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C =

(2)

(b)

<p>Stones-R-Us</p> <p>Paving slabs £ 2.50 each + Delivery £ 35</p>

James wants to buy some paving slabs and have them delivered.
The total cost is the same from both companies.

How many paving slabs does he want to buy?

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Answer

(3)
(Total 5 marks)