Janice cuts a triangle from a rectangular piece of metal.
She uses the rest of the metal to make a name badge.

The rectangle has length 6 cm and width 3 cm .
The right-angled triangle has base 2 cm and height 3 cm .

Work out the area of the name badge.

The diagram shows a trapezium.

All the measurements are in centimetres.

The area of the trapezium is
$351 \mathrm{~cm}^{2}$.
(a) Show that $2 x^{2}+x-351=0$
(b) Work out the value of $x$.

Solve $\quad 3 x^{2}+6 x-2=0$
Give your solutions correct to 2 decimal places.

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| $P Q R$ is a right-angled triangle. $P R=17 \mathrm{~cm} P Q=25 \mathrm{~cm}$ <br> Work out the size of angle $R P Q$. <br> Give your answer correct to 1 decimal place. | $A B C$ is a triangle $A C=8.4 \mathrm{~m}$ <br> Angle $A C B=40$ <br> The area of the <br> Work out the len Give your answe significant figure You must show | gle = <br> of $A B$. rrect to <br> our wor |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $A B C$ is a triangle. <br> Work out the area of triangle $A B C$. Give your answer correct to 3 significant | There are yellow Dinesh is going <br> The table shows or a blue disc, | cs, red ake at ra <br> h of the green di | a dis <br> bilitie | gre he ba <br> ines |  |
| C | Colour | yellow | red | blue | green |
|  | Probability |  | 0.40 | 0.25 | 0.15 |
| Work out the length of the side $A B$. Give your answer correct to 3 significant figures. | Work out the pr | ility that | ill tak | w dis |  |
| Franz invests $£ 1500$ at a rate of $3 \frac{1}{2} \%$ per annum compound interest. <br> Work out the value of his investment after 2 years. | Charlie invests <br> Work out the val | 0 at 3.5 <br> of Charl | annu estm | ound $\text { r } 3 \text { ye }$ |  |

