



14th August		 Corbettmaths
$  \begin{array}{ccc}  & 2x + 1 & 19 \\  2.5 & \boxed{\phantom{0000}} & 3y - 2 \\  & 19 &  \end{array}  $	Find x	$  \begin{aligned}  2x + 1 &= 19 \\  2x &= 18 \\  x &= 9  \end{aligned}  $
Find y	$  \begin{aligned}  3y - 2 &= 2.5 \\  3y &= 4.5 \\  y &= 1.5  \end{aligned}  $	Perimeter
		$  \begin{aligned}  19 + 19 + 2.5 + 2.5 \\  = 43 \text{ cm}  \end{aligned}  $
Solve		
$  \begin{aligned}  x^2 + 6x + 9 &= 0 \\  (x + 3)(x + 3) &= 0  \end{aligned}  $		$x = -3$
Expand and simplify		
$  \begin{aligned}  (5y - 1)(y - 2) \\  5y^2 - 10y - y + 2  \end{aligned}  $		$5y^2 - 11y + 2$
<p>The speed limit on a road is 40mph. A scooter drives 9 miles in 13 minutes. <math>13 \div 60 = 0.216</math></p> <p>Is the scooter breaking the speed limit?</p> <p style="text-align: center;"> <i>yes</i></p>		$s = \frac{d}{t} = \frac{9}{0.216} = 41.538 \text{ mph}$