
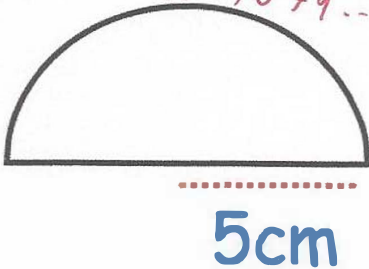


22nd February		 Corbettmaths															
Work out the reciprocal of 0.4.																	
$0.4 = \frac{2}{5}$		$\frac{5}{2} = 2\frac{1}{2} = 2.5$															
A TV is reduced in a sale by 18%. In the sale it costs £295.20 Work out the normal price of the TV.		$82\% = 295.20$ $1\% = 3.6$ $100\% = £360$															
Factorise $x^2 - 5x - 14$		Factorise $x^2 - 21x + 20$															
$(x-7)(x+2)$		$(x-20)(x-1)$															
$x^3 - 5x^2 = 250$ has a solution between 8 and 9. Find this solution to one decimal place.																	
$\begin{array}{ccc} \downarrow & \downarrow & \uparrow \\ -----x \\ 8.4 & 8.45 & 8.5 \end{array}$		<table border="0"> <tr><td>2</td><td>$x^3 - 5x^2$</td><td>Correct</td></tr> <tr><td>8.4</td><td>239.9</td><td>too low</td></tr> <tr><td>8.5</td><td>252.87</td><td>too high</td></tr> <tr><td>8.45</td><td>246.33</td><td>too low</td></tr> <tr><td>8.45</td><td></td><td>8.45 8.5</td></tr> </table>	2	$x^3 - 5x^2$	Correct	8.4	239.9	too low	8.5	252.87	too high	8.45	246.33	too low	8.45		8.45 8.5
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$15.7079\dots$ 		Calculate the perimeter of this semi-circle.															
		$\frac{1}{2}(\pi \times d)$ $\frac{1}{2}(\pi \times 10) = 15.707\dots$ 25.708 cm															