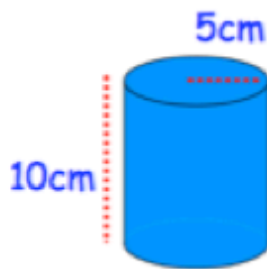


March 8th	5-a-day	Numeracy								
Simplify $a + a + a$	Simplify $4a + 2a$									
What are the next two terms in this sequence? 6 10 14 <u>18</u> <u>22</u>	$3a$	$6a$								
A boy starts school at 9am. He finishes at 3.25pm. There is a 15 minute break and a 50 minute lunch. There are 8 lessons in the day, each the same length.	How long is each lesson? $6 \times 60 = 360$ $360 + 25 = 385 \text{ min.}$ $385 - 50 - 15 = 320 \text{ min}$ $320 \div 8 = 40 \text{ mins}$									
Connor bought a computer. He paid a deposit of £120 and made 24 monthly payments of £12. How much was the total cost?	$24 \times 12 = 288$ 288 $+ 120$ $\hline 408$									
There are three colours on a spinner. Find the missing probability	<table border="1" data-bbox="790 1680 1364 1758"> <thead> <tr> <th>Colour</th> <th>Red</th> <th>Blue</th> <th>White</th> </tr> </thead> <tbody> <tr> <td>Probability</td> <td>0.1</td> <td>0.65</td> <td>0.25</td> </tr> </tbody> </table> 0.1 $+ 0.25$ $\hline 0.35$	Colour	Red	Blue	White	Probability	0.1	0.65	0.25	$1 - 0.35$ $= 0.65$
Colour	Red	Blue	White							
Probability	0.1	0.65	0.25							

The weight of a bag of potatoes is 5kg to the nearest kilogram.

What is the smallest possible weight of the bag?

$$4.5\text{kg}$$



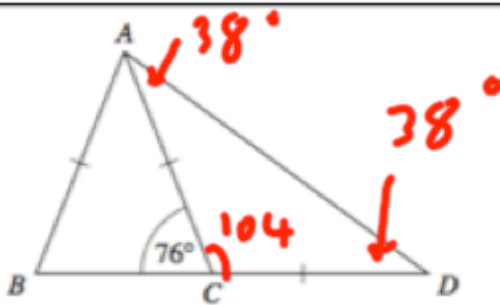
Calculate the volume of this cylinder

$$\begin{aligned} \pi \times 5^2 &= 78.5398\dots \\ 78.5398 \times 10 & \\ &= 785.4\text{cm}^3 \end{aligned}$$

Solve $\frac{2x+1}{3} = 5$

$$\begin{aligned} &\times 3 \quad \times 3 \\ 2x+1 &= 15 \end{aligned}$$

$$\begin{aligned} 2x+1 &= 15 \\ -1 \quad -1 & \\ 2x &= 14 \\ \div 2 \quad \div 2 & \\ x &= 7 \end{aligned}$$



Find the size of angle D

$$\begin{aligned} 180 - 104 &= 76 \\ 76 \div 2 &= 38^\circ \end{aligned}$$

$$4\frac{1}{2} - 2\frac{2}{3}$$

$$\frac{9}{2} - \frac{8}{3}$$

$$\begin{aligned} \frac{27}{6} - \frac{16}{6} &= \frac{11}{6} \\ 1\frac{5}{6} & \end{aligned}$$

Square $(x + 10)$

$$(x+10)^2$$

$$(x+10)(x+10)$$

$$x^2 + 10x + 10x + 100$$

$$x^2 + 20x + 100$$

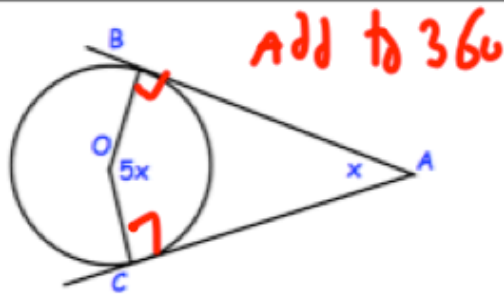
Find x

$$5x + x + 90 + 90 = 360$$

$$6x + 180 = 360$$

$$6x = 180$$

$$x = 30$$



Solve

$$\frac{2t+1}{3} + \frac{5-t}{4} = 3$$

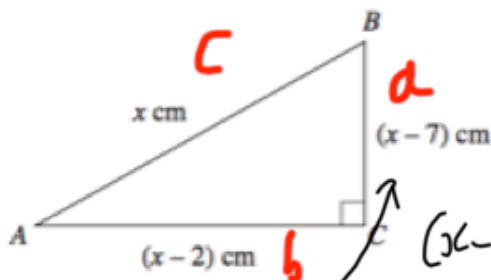
$$\frac{8t+4}{12} + \frac{15-3t}{12} = 3$$

$$\frac{5t+19}{12} = 3$$

$$5t+19 = 36$$

$$5t = 17$$

$$t = 3.4$$



Show

$$x^2 - 18x + 53 = 0$$

$$a^2 + b^2 = c^2$$

$$(x-7)^2 + (x-2)^2 = x^2$$

$$(x-7)(x-7) + (x-2)(x-2) = x^2$$

$$x^2 - 14x + 49 + x^2 - 4x + 4 = x^2$$

Solve to find the length of each side

~~$x = 3.7$ or 14.3~~

$14.3, 12.3, 7.3$

$$2x^2 - 18x + 53 = x^2$$

$$x^2 - 18x + 53 = 0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$a = 1$
 $b = -18$
 $c = 53$