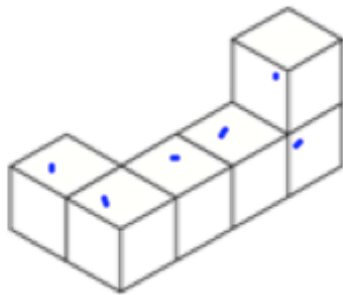


This square is drawn on a centimetre squared grid.

Find the area

$$49\text{cm}^2$$



This solid is made from one-centimetre cubes

Find the volume

$$6\text{cm}^3$$



Show 35mph on the speedometer

Find the value of  $5x + 3y$  when  $x = 6$  and  $y = 7$

$$5 \times 6 + 3 \times 7$$

$$30 + 21$$

$$51$$

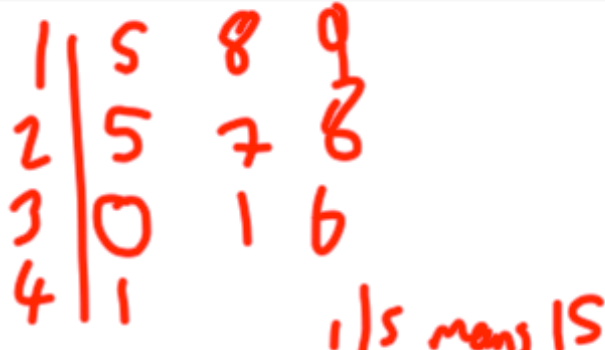

Find the output if the input is 11

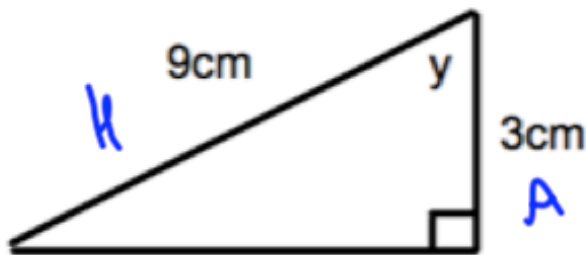


$$11 + 10 \div 3 = 7$$

$$11 + 10 = 21$$

$$21 \div 3 = 7$$

May 1st	5-a-day	Foundation
<p>Martin asked 6 friends their age.</p> <p>21 28 28 28 29 30</p> <p>If a seventh friend has an age of 34, will the range decrease, increase or stay the same?</p>		<p>Range <math>30 - 21 = 9</math></p> <p>New range <math>34 - 21 = 13</math> increases.</p>
<p>Draw a stem and leaf for:</p> <p><del>19</del> <del>31</del> <del>15</del> <del>28</del> <del>27</del> <del>30</del> <del>36</del> <del>41</del> <del>18</del> <del>25</del></p>		
<p>Two towns are 150km apart.</p> <p>The scale of a map is 1:3000000</p> <p>How far are the towns apart on the map in centimetres?</p>		<p><math>15000000 \text{ cm} \div 3000000 = 5 \text{ cm}</math></p>
<p><math>180 = 2^2 \times 3^2 \times 5</math> <math>120 = 2^3 \times 3 \times 5</math></p> <p>What is the LCM of 120 and 180?</p> <p>360</p>		
<p>Expand and simplify</p> <p><math>9y + 6(2 - y) + 4y</math></p>	<p><math>9y + 12 - 6y + 4y</math> <math>7y + 12</math></p>	



Calculate angle  $y$

$$\cos y = \frac{3}{9}$$

$$y = 70.53^\circ$$

Time taken ( $m$ minutes)	Frequency
$0 < m \leq 10$	3
$10 < m \leq 20$	5
$20 < m \leq 30$	2

Calculate the estimated mean

$$\begin{array}{r}
 15 \\
 75 \\
 30 \\
 \hline
 120
 \end{array}$$

$$120 \div 10 = 12$$

The probability of rain on any day in June is 0.4  
How many days is it expected to rain?

$$0.4 \times 30 = 12$$

Solve  $2x + 4 < 6x - 9$

$$4 < 4x - 9$$

$$13 < 4x$$

$$3.25 < x$$

$$x > 3.25$$

John wants a stratified sample of 40.

Calculate number in each year group.

Year 7 65 students

$$65 \div 180 \times 40 = 14.4$$

14

Year 8 45 students

$$45 \div 180 \times 40 = 10$$

10

Year 9 70 students

$$70 \div 180 \times 40 = 15.5$$

16

180