

June 7th	5-a-day	Numeracy
<p>Write down the number halfway between:</p> <p>30 and 50</p> <p style="text-align: center; color: red; font-size: 2em;">40</p>	<p>18 and 24</p> <p style="text-align: center; color: red; font-size: 2em;">21</p>	
<p>Write 0.6 as a fraction.</p> <p style="text-align: center; color: red; font-size: 2em;"> $\frac{6}{10}$ $\frac{3}{5}$ </p>	<p>Write 90 % as a decimal.</p> <p style="text-align: center; color: red; font-size: 2em;">0.9</p>	
<p>The digits 2, 3 and 4 can be used to make different answers. For example $2 + 3 - 4 = 1$ $2 \times 4 + 3 = 11$ Each digit can only be used once.</p> <p>Use the digits 2, 3 and 4 once only to make an answer of</p>		
<p>9</p> <p style="text-align: center; color: red; font-size: 2em;">$2 + 3 + 4$</p>	<p>24</p> <p style="text-align: center; color: red; font-size: 2em;">$2 \times 3 \times 4$</p>	
<p>10</p> <p style="text-align: center; color: red; font-size: 2em;">$3 \times 4 - 2$</p>		

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

$$1\frac{1}{4}$$

Solve $2(w + 8) + 4(w + 3) = 40$

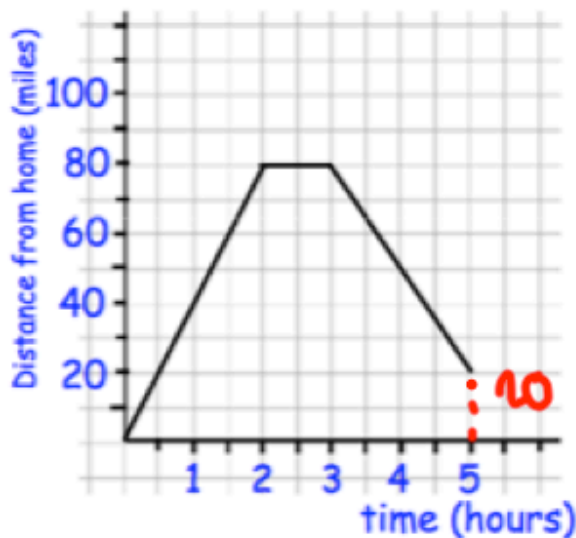
$$2w + 16 + 4w + 12 = 40$$

$$6w + 28 = 40$$

$$6w = 12$$

$$w = 2$$

Martin travels from home to his uncle's house. He stays there for a while then visits his friend Jack.



How long did it take Martin to reach his Uncle's house?

2 hours

How long did he stay at his uncle's house?

1 hour.

What was Martin's average speed on his journey to his uncle's?

$$s = d \div t$$

$$s = 80 \div 2 = 40$$

40 mph

Martin reaches Jack's house 5 hours after leaving home. How far is Jack's house from Martin's?

20 miles.

June 7	5-a-day	Higher
Solve $9(y + 3) = 45$	$9y + 27 = 45$ $9y = 18$ $y = 2$	
The angles of a right angled triangle are $(2x + 10)^\circ$, $(x + 20)^\circ$ and 90° . Form and solve an equation to find x .	$3x + 120 = 180$ $3x = 60$ $x = 20$	
w is directly proportional to a^2 When $w = 50$, $a = 10$ Find w when $a = 5$.	$w \propto a^2$ $w = ka^2$ $50 = k \times 10^2$ $k = 0.5$	$w = 0.5a^2$ $w = 0.5 \times 5^2$ $= 0.5 \times 25$ $= 12.5$
Write $0.825252525\dots$ as a fraction. $x = 0.8252525\dots$ $10x = 8.2525\dots$ $1000x = 825.2525\dots$	$1000x = 825.25\dots$ $10x = 8.25\dots$ <hr/> $990x = 817$ $x = \frac{817}{990}$	
$\sqrt{20} + \sqrt{80}$ $\sqrt{4 \times 5} + \sqrt{16 \times 5}$ $2\sqrt{5} + 4\sqrt{5} = 6\sqrt{5}$		