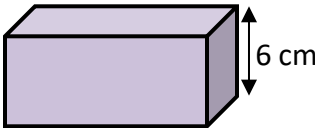
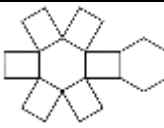


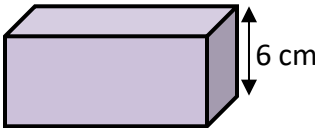
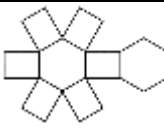


# MENTAL MATH QUIZ 6:3

1)	Write $3.726 \times 10^2$ in standard form.	
2)	Which expression is the same as $12t - 18$ ? a) $4(3t - 14)$ b) $6(2t - 3)$ c) $3(4t + 6)$ d) $12(t - 2)$	
3)	$2 \frac{2}{3} \times 9$	
4)	$5^2 - (8 + 3 \times 7)$	
5)	Select all the numbers which are <b>not</b> prime? 41   47   39   37   49   43	
6)	What is $\frac{4}{9}$ of 360?	
7)	Simplify this expression: $3a + 4 + 2a - 6 - a$	
8)	How many ounces in $2 \frac{3}{4}$ pounds?	
9)	What is the volume of this prism?  Area of base is $16 \frac{1}{2}$ cm	
10)	What is the mean of this data set? 8   12   7   8   11   9   8	
11)	Solve this equation for y: $4y = 36$	
12)	Convert 0.38 to a fraction in simplest form.	
13)	Work out 20% of \$140.	
14)	Write the number 42 as a product of its 3 prime factors.	
15)	Put these numbers in order, smallest first: 0.6   0.085   0.28   0.47	
16)	The ratio of swimmers to non-swimmers in a class is 5:2. If there are 35 students in the class, how many are non-swimmers?	
17)	Which of these 3d shapes is this the net for: a) dodecahedron   b) hexagonal pyramid c) hexagonal prism   d) icosahedron 	
18)	What is the area of a right triangle with sides 9 cm and 6 cm.	



# MENTAL MATH QUIZ 6:3 ANSWERS

1)	Write $3.726 \times 10^2$ in standard form.	<b>372.6</b>
2)	Which expression is the same as $12t - 18$ ? a) $4(3t - 14)$ b) $6(2t - 3)$ c) $3(4t + 6)$ d) $12(t - 2)$	<b>b) <math>6(2t - 3)</math></b>
3)	$2\frac{2}{3} \times 9$	<b>24</b>
4)	$5^2 - (8 + 3 \times 7)$	<b>-4</b>
5)	Select all the numbers which are <b>not</b> prime? 41   47   39   37   49   43	<b>39 and 49</b>
6)	What is $\frac{4}{9}$ of 360?	<b>160</b>
7)	Simplify this expression: $3a + 4 + 2a - 6 - a$	<b><math>4a - 2</math> or <math>2(2a - 1)</math></b>
8)	How many ounces in $2\frac{3}{4}$ pounds?	<b>44</b>
9)	What is the volume of this prism?  Area of base is $16\frac{1}{2}$ cm	<b><math>99 \text{ cm}^3</math></b>
10)	What is the mean of this data set? 8   12   7   8   11   9   8	<b>9</b>
11)	Solve this equation for y: $4y = 36$	<b><math>y = 9</math></b>
12)	Convert 0.38 to a fraction in simplest form.	<b><math>\frac{19}{50}</math></b>
13)	Work out 20% of \$140.	<b>\$28</b>
14)	Write the number 42 as a product of its 3 prime factors.	<b><math>2 \times 3 \times 7</math></b>
15)	Put these numbers in order, smallest first: 0.6   0.085   0.28   0.47	<b>0.085   0.28   0.47   0.6</b>
16)	The ratio of swimmers to non-swimmers in a class is 5:2. If there are 35 students in the class, how many are non-swimmers?	<b>10 students</b>
17)	Which of these 3d shapes is this the net for: a) dodecahedron   b) hexagonal pyramid c) hexagonal prism   d) icosahedron 	<b>c) hexagonal prism</b>
18)	What is the area of a right triangle with sides 9 cm and 6 cm.	<b><math>27 \text{ cm}^2</math></b>