







# MENTAL MATH QUIZ 6:4

1)	What is 5% of \$1200?	
2)	What is the value of the expression $3(2 + 4a)$ when $a = 7$ ?	
3)	$2\frac{1}{3} \times \frac{5}{7}$	
4)	Write $\frac{3}{5}$ as a decimal.	
5)	Write an algebraic expression for the value of the missing angle A in terms of $x$ .	
6)	Write 56 as a product of prime factors.	$A = \underline{\hspace{2cm}}$
7)	Solve this equation for p: $112 + p = 178$	
8)	Work out $2^3 \cdot 3 \cdot 5$	
9)	Write down all the positive integer values of d that are solutions for this inequality: $d + 5 \leq 9$	
10)	What is the perimeter of a regular hexagon with sides 8 inches?	
11)	In a bag, there are some white balls and red balls. The ratio of white balls to red balls is 3:5. What proportion of the balls in the bag are red?	
12)	Tyger travels 57 miles in 90 minutes. What is his average speed in miles per hour?	
13)	A square has an area of 121 square feet. What is the length of each side?	
14)	How many cups in $2\frac{1}{2}$ gallons?	
15)	What decimal is equivalent to 24%?	
16)	A book has 379 pages. I read $n$ pages. Write an expression to show how many pages I still need to read to finish the book.	
17)	Work out $\frac{7}{3} - \frac{4}{5}$ . Give your answer as an improper fraction.	
18)	Put these in order, smallest first: $ -7 $ $ 2 $ $ 5 $ $ -1 $	$\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$



# MENTAL MATH QUIZ 6:4 ANSWERS

1)	What is 5% of \$1200?	<b>\$60</b>
2)	What is the value of the expression $3(2 + 4a)$ when $a = 7$ ?	<b>90</b>
3)	$2\frac{1}{3} \times \frac{5}{7}$	<b><math>\frac{5}{3}</math></b>
4)	Write $\frac{3}{5}$ as a decimal.	<b>0.6</b>
5)	Write an algebraic expression for the value of the missing angle A in terms of $x$ .	 <b><math>A = 90 - x^\circ</math></b>
6)	Write 56 as a product of prime factors.	<b><math>2 \times 2 \times 2 \times 7</math> or <math>2^3 \times 7</math></b>
7)	Solve this equation for p: $112 + p = 178$	<b><math>p = 66</math></b>
8)	Work out $2^3 \cdot 3 \cdot 5$	<b>120</b>
9)	Write down all the positive integer values of d that are solutions for this inequality: $d + 5 \leq 9$	<b><math>d = 1, 2, 3</math> or 4</b>
10)	What is the perimeter of a regular hexagon with sides 8 inches?	<b><math>8 \times 6 = 48</math> in.</b>
11)	In a bag, there are some white balls and red balls. The ratio of white balls to red balls is 3:5. What proportion of the balls in the bag are red?	<b><math>\frac{3}{8}</math></b>
12)	Tyger travels 57 miles in 90 minutes. What is his average speed in miles per hour?	 <b>38 mph</b>
13)	A square has an area of 121 square feet. What is the length of each side?	<b>11 feet</b>
14)	How many cups in $2\frac{1}{2}$ gallons?	<b>40 cups</b>
15)	What decimal is equivalent to 24%?	<b>0.24</b>
16)	A book has 379 pages. I read $n$ pages. Write an expression to show how many pages I still need to read to finish the book.	<b><math>379 - n</math></b>
17)	Work out $\frac{7}{3} - \frac{4}{5}$ . Give your answer as an improper fraction.	<b><math>\frac{23}{15}</math></b>
18)	Put these in order, smallest first: $ -7 $ $ 2 $ $ 5 $ $ -1 $	<b><u><math>-1</math></u> <u><math>2</math></u> <u><math>5</math></u> <u><math>-7</math></u></b>