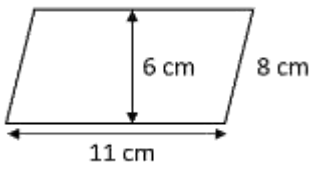
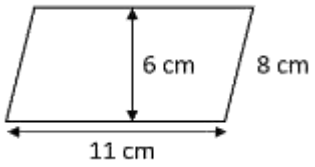
Name Date

MENTAL MATH QUIZ 6:8

1)	What is the value of the expression *2 (10 + q)* if q = 6?	
2)	What is the missing exponent: $2^{\square} = 16$	
3)	Simplify this expression: *y + 6 – 2y – 10 + 3y*	
4)	What is the probability of rolling a 6-sided dice and getting a multiple of 3? *Give your answer as a fraction in simplest form.*	
5)	Write 0.875 as a percentage.	
6)	Select **all** of the values of g which satisfy the inequality: $10 - 2g \leq 4$ a) g = 4 b) g = 2 c) g = 10 d) g = 0	
7)	A game is normally priced at $80. It is reduced by 20% in a sale. How much is the game now?	
8)	Frazer spends 3 hours watching 4 episodes of his favourite show Salamanderville. What is the unit rate in minutes per episode?	
9)	What number does this roman numeral represent: CMLXXVI?	
10)	Put these values in order, smallest first: |-5| |-7| |3| |-1|	_____ _____ _____ _____
11)	The perimeter of a rectangle is 30 cm. The area of the rectangle is 36 cm^2. What are the lengths of the sides?	
12)	What is the **lowest common multiple** of 6 and 8?	
13)	There are some red, yellow and white counters in a bag. The ratio of red to yellow to white counters is 2 : 3 : 1. If there are 42 counters in the bag, how many are red? 	
14)	A car travels at 40 miles an hour for 30 minutes and then 50 miles an hour for another 30 minutes. What is the overall distance?	
15)	What is the area of the parallelogram below: 	
16)	Quadra runs 6 miles each week. Write an expression for how far Quadra will have run after *n* weeks.	_____ miles
17)	How many meters in 0.47 kilometers?	
18)	What is the **range** of the data set below: -2, -5, 0, 2, 6, -3, -2, -1, 0, 2, 0	

Name Date

MENTAL MATH QUIZ 6:8 ANSWERS

1)	What is the value of the expression *2 (10 + q)* if q = 6?	**32**
2)	What is the missing exponent: $2^{\square} = 16$	**4**
3)	Simplify this expression: *y + 6 – 2y – 10 + 3y*	**2y – 4 or 2(y-2)**
4)	What is the probability of rolling a 6-sided dice and getting a multiple of 3? *Give your answer as a fraction in simplest form.*	**⅓**
5)	Write 0.875 as a percentage.	**87.5%**
6)	Select **all** of the values of g which satisfy the inequality: 10 – 2g ≤ 4 a) g = 4 b) g = 2 c) g = 10 d) g = 0	**a) and c)**
7)	A game is normally priced at $80. It is reduced by 20% in a sale. How much is the game now?	**$64**
8)	Frazer spends 3 hours watching 4 episodes of his favourite show Salamanderville. What is the unit rate in minutes per episode?	**45 minutes per episode**
9)	What number does this roman numeral represent: CMLXXVI?	**976**
10)	Put these values in order, smallest first: |-5| |-7| |3| |-1|	|-1| |3| |-5| |-7|
11)	The perimeter of a rectangle is 30 cm. The area of the rectangle is 36 cm^2. What are the lengths of the sides?	**3 cm and 12 cm**
12)	What is the **lowest common multiple** of 6 and 8?	**24**
13)	There are some red, yellow and white counters in a bag. The ratio of red to yellow to white counters is 2 : 3 : 1. If there are 42 counters in the bag, how many are red? 	**14**
14)	A car travels at 40 miles an hour for 30 minutes and then 50 miles an hour for another 30 minutes. What is the overall distance?	**45 miles**
15)	What is the area of the parallelogram below: 	**66 cm^2**
16)	Quadra runs 6 miles each week. Write an expression for how far Quadra will have run after *n* weeks.	*6n* miles
17)	How many meters in 0.47 kilometers?	**470 m**
18)	What is the **range** of the data set below: -2, -5, 0, 2, 6, -3, -2, -1, 0, 2, 0	**11**