Math 6 - Unit 3: Expressions

Name: _____

Unit 3 Interim Assessment Study Guide

Class Period: 1 2 3 4 Date: _____

1)	Audra is 9 years younger than Fred. Her age can be represented by the expression <i>f</i> – 9, where <i>f</i> represents Fred's age. If Fred is 57 years old, how old is Audra?	2)	Kimberly uses the expression 10(3p – 1) to determine how much profit she will make after selling any given number of paintings (p). If p = 35, how much profit will Kimberly make?
	Answer:		Answer:
3)	The expression for the perimeter of a rectangle is 2L + 2W where L is the length and W is the width. A rectangular shaped pool has a length of 57 feet and a width of 21 feet. What is the perimeter of the pool?	4)	What is the value of x ² + 8 if x =13?
	Answer:		Answer:

5) Evaluate the expression $8x^2$ if $x = 7$.	6) Which expression represents 18 less than twice k?
	A) 2k – 18 B) 18 – 2k C) 2(k – 18) D) 2(18 – k)
Answer:	Answer:
 Mr. Goletz started the school year with 33 students in his class. If y students moved out of his class, which expression represents the number of students left in the class? A) y + 33 	 Marcus has 57 baseball cards to divide between his teammates. Let c represent the number of teammates he has.
	Which expression represents the number of baseball cards each of Marcus' teammates will receive?
B) y - 33 C) 33 - y	A) $\frac{57}{c}$
D) 33 ÷ y	B) $\frac{c}{57}$
	C) 57 <i>c</i>
A	D) $57 - c$
Answer:	Answer:
9) Choose the expression that represents "twice the sum of z and 14." (A) $2z + 14$	10) Which algebraic expression represents "the sum of a number and 15, divided by 12"?
B) $2(z + 14)$ C) $2 + 14z$	A) $x + \frac{15}{12}$ B) $\frac{x+15}{12}$
D) 14 (2 + z)	C) $\frac{x}{12}$ + 15
	D) $12(x + 15)$
Answer:	Answer:

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ANSWER KEY

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1)	Audra is 9 years younger than Fred. Her age can be represented by the expression <i>f</i> – 9, where <i>f</i> represents Fred's age. If Fred is 57 years old, how old is Audra?	2)	Kimberly uses the expression 10(3p – 1) to determine how much profit she will make after selling any given number of paintings (p). If p = 35, how much profit will Kimberly make?
	Answer: 48		Answer: 1040
3)	The expression for the perimeter of a rectangle is 2L + 2W where L is the length and W is the width. A rectangular shaped pool has a length of 57 feet and a width of 21 feet. What is the perimeter of the pool?	4)	What is the value of x ² + 8 if x =13?
	Answer: 156 ff		Answer: 177

5) Evaluate the expression 8x ² if x = 7.	 6) Which expression represents 18 less than twice k? A) 2k - 18 B) 18 - 2k C) 2(k - 18) D) 2(18 - k)
Answer: 39	2 Answer: a
 7) Mr. Goletz started the school year with 33 students in his class. If y students moved out of his class, which expression represents the number of students left in the class? A) y + 33 B) y - 33 C) 33 - y D) 33 ÷ y 	8 8) Marcus has 57 baseball cards to divide between his teammates. Let c represent the number of teammates he has. Which expression represents the number of baseball cards each of Marcus' teammates will receive? A) $\frac{57}{c}$ B) $\frac{c}{57}$ C) 57c D) 57 - c
Answer:	Answer: a
 9) Choose the expression that represents "twice the sum of z and 14." A) 2z + 14 B) 2(z + 14) C) 2 + 14z D) 14 (2 + z) 	 10) Which algebraic expression represents "the sum of a number and 15, divided by 12"? A) x + ¹⁵/₁₂ B) ^{x+15}/₁₂ C) ^x/₁₂ + 15 D) 12(x + 15)
Answer:	Answer: b