Math 6 - Unit 3: Expressions

Unit 3 Interim Assessment Study Guide

Name: _____

Class Period: 1 2 3 4 Date: _____

1) Audra is 9 years younger than Fred. Her age can be represented by the expression *f* – 9, where *f* represents Fred's age. If Fred is 57 years old, how old is Audra? *Answer:* _____	**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:* _____
3) The expression for the perimeter of a rectangle is **2*L* + 2*W*** 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? *Answer:* _____	**4)** What is the value of $x^2 + 8$ if x =13? *Answer:* _____

5) Evaluate the expression $8x^2$ if x = 7.

Answer: _____

6) Which expression represents 18 less than twice *k*?

A) 2k – 18
B) 18 – 2k
C) 2(k – 18)
D) 2(18 – k)

Answer: _____

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

Answer: _____

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: _____

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)

Answer: _____

10) Which algebraic expression represents "the sum of a number and 15, divided by 12"?

A) $x + \frac{15}{12}$
B) $\frac{x+15}{12}$
C) $\frac{x}{12} + 15$
D) $12(x + 15)$

Answer: _____

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ANSWER KEY

Name: _____

Class Period: 1 2 3 4 Date: _____

1) Audra is 9 years younger than Fred. Her age can be represented by the expression *f* – 9, where *f* represents Fred's age. If Fred is 57 years old, how old is Audra? *Answer:* ***48***	**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:* ***1040***
3) The expression for the perimeter of a rectangle is **2*L* + 2*W*** 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? *Answer:* ***156 ft***	**4)** What is the value of $x^2 + 8$ if x =13? *Answer:* ***177***

5) Evaluate the expression $8x^2$ if x = 7.

Answer: ***392***

6) Which expression represents 18 less than twice *k*?

A) 2k – 18
B) 18 – 2k
C) 2(k – 18)
D) 2(18 – k)

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

Answer: ***b***

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: ***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)

Answer: ***b***

10) Which algebraic expression represents "the sum of a number and 15, divided by 12"?

A) $x + \frac{15}{12}$
B) $\frac{x+15}{12}$
C) $\frac{x}{12} + 15$
D) $12(x + 15)$

Answer: ***b***