

Unit 6 RETest**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- _____ 1. Which phrase represents the expression $14x - 19$?
- fourteen times nineteen plus a number
 - fourteen times nineteen minus a number
 - nineteen less than a number multiplied by fourteen
 - a number multiplied by fourteen then added to nineteen
- _____ 2. Which expression is equal to “13 more than the quotient of n and 8”?
- $13n \div 8$
 - $n - 8 + 13$
 - $n \times 8 + 13$
 - $n \div 8 + 13$
- _____ 3. Evaluate $\frac{12}{y} + 9z$ for $y = 6$ and $z = 3$.
- $\frac{12}{6y} + 3z$
 - $6\frac{1}{2}$
 - 95
 - 29
- _____ 4. Which expression is equal to “8 less than the product of y and 9”?
- $9 + y - 8$
 - $8 - y \div 9$
 - $9y - 8$
 - $8 - 9y$
- _____ 5. Hendrick makes birdhouses. It takes him 35 minutes to make a birdhouse. What is an expression that shows how long it takes him to make t birdhouses?
- $35 + t$
 - $35t$
 - $35 - t$
 - $\frac{35}{t}$
- _____ 6. Identify the coefficients in the expression $8x^2 + 9x - 4$.
- $8x^2$, $9x$, and 4
 - 8 and 9
 - x^2 and x
 - 4
- _____ 7. In the expression $3x^2 + 4x - 6$, $3x^2$, $4x$, and 6 are examples of which of the following?
- coefficients
 - variables
 - factors
 - terms

- _____ 8. Identify the coefficients, constant term(s), and like terms of the expression.
 $3x + 2 - 5x - 7$
- a. coefficients: 3, -5
constant terms: 2, -7
like terms: $3x$ and $-5x$, 2 and -7
 - b. coefficients: 3, 5
constant terms: 2, 7
like terms: $3x$ and $5x$, 2 and 7
 - c. coefficients: 3, -5
constant terms: 2, -7
like terms: $3x$ and 2, -7 and $-5x$
 - d. coefficients: 3, 5
constant terms: 2, 7
like terms: $3x$ and 2, 7 and $5x$
- _____ 9. Evaluate $8m^2 \div 3m$ for $m = 3$.
- a. 72
 - b. 24
 - c. 64
 - d. 8
- _____ 10. Simplify $55x^2 + y - 2x^2$.
- a. $53x^2 - y$
 - b. $53x^2 + y$
 - c. $53x^2$
 - d. $57x^2 + y$
- _____ 11. Combine like terms in the expression $4a^2 + 5 - 3a^2$.
- a. $a^2 + 5$
 - b. $7a^2 + 5$
 - c. $6a^2$
 - d. $a + 5$
- _____ 12. $7(10 + 7) = 7(10) + 7(7)$ is an example of which property?
- a. Commutative
 - b. Distributive
 - c. Associative
 - d. Reflexive

Tell which property is illustrated by the statement.

- _____ 13. $18 \cdot y = y \cdot 18$
- a. Commutative Property of Addition
 - b. Multiplication Property of One
 - c. Commutative Property of Multiplication
 - d. Associative Property of Multiplication
- _____ 14. $7 \cdot (19 \cdot x) = (7 \cdot 19) \cdot x$
- a. Multiplication Property of One
 - b. Associative Property of Multiplication
 - c. Commutative Property of Multiplication
 - d. Distributive Property

Name: _____

ID: A

Short Answer

1. Simplify the expression.

$$2p + 4(m - 6 + 2m) - 12m + 3p$$

Unit 6 RETest Answer Section

MULTIPLE CHOICE

1. ANS: C PTS: 1 NAT: NT.CCSS.MTH.10.6.6.EE.2
MSC: DOK 1
2. ANS: D PTS: 1 NAT: NT.CCSS.MTH.10.6.6.EE.2
MSC: DOK 1
3. ANS: D PTS: 1 REF: 9470f521-9631-11dd-8a40-001185f11039
OBJ: Evaluating Algebraic Expressions with Two Variables NAT: NT.CCSS.MTH.10.6.6.EE.2
LOC: MTH.C.10.05.02.02.013 TOP: Variables and Algebraic Expressions
KEY: algebraic expression | evaluate | substitute MSC: DOK 2
4. ANS: C PTS: 1 NAT: NT.CCSS.MTH.10.6.6.EE.2.a
MSC: DOK 1
5. ANS: B PTS: 1 NAT: NT.CCSS.MTH.10.6.6.EE.2.a
MSC: DOK 2
6. ANS: B PTS: 1 NAT: NT.CCSS.MTH.10.6.6.EE.2.b
KEY: coefficient | expression MSC: DOK 1
7. ANS: D PTS: 1 NAT: NT.CCSS.MTH.10.6.6.EE.2.b
KEY: term | expression MSC: DOK 1
8. ANS: A PTS: 1 REF: MLC20289 NAT: NT.CCSS.MTH.10.6.6.EE.2.b
TOP: Simplifying Expressions KEY: identifying coefficients | constant terms | like terms
MSC: DOK 1
9. ANS: D PTS: 1 NAT: NT.CCSS.MTH.10.6.6.EE.2.c
MSC: DOK 1
10. ANS: B PTS: 1 NAT: NT.CCSS.MTH.10.6.6.EE.3
MSC: DOK 1
11. ANS: A PTS: 1 NAT: NT.CCSS.MTH.10.6.6.EE.3
MSC: DOK 1
12. ANS: B PTS: 1 NAT: NT.CCSS.MTH.10.6.6.EE.3
MSC: DOK 2
13. ANS: C PTS: 1 DIF: Level 1 NAT: 6.EE.2b | 6.EE.3 | 6.EE.4
KEY: multiplication | properties MSC: Knowledge NOT: PE #5
14. ANS: B PTS: 1 DIF: Level 1 NAT: 6.EE.2b | 6.EE.3 | 6.EE.4
KEY: multiplication | properties MSC: Knowledge NOT: PE #7

SHORT ANSWER

1. ANS:
 $5p - 24$

PTS: 1 REF: MLC20288 NAT: NT.CCSS.MTH.10.6.6.EE.3
LOC: NCTM 6-8.ALG.2.d TOP: Simplifying Expressions
KEY: simplify expressions | distributive property | combine like terms
MSC: DOK 1