Name:_____

**chapter 5 part1 pv1**

*Indicate the answer choice that best completes the statement or answers the question.*

**Evaluate each expression if $r = 5$, $s = 2$, $t = 7$, and $u = 1$.**

___ 1. $s + 7$
a. 8
b. 9
c. 12
d. 14

___ 2. $9 - u$
a. 8
b. 7
c. 5
d. 2

___ 3. $u + r$
a. –4
b. 3
c. 6
d. 8

**Evaluate each expression if $a = 4.1$, $b = 5.7$, and $c = 0.3$.**

___ 4. $a + b - c$
a. 9.5
b. 9.8
c. 10
d. 10.1

___ 5. $b - c + 2$
a. 2.7
b. 3.4
c. 7.4
d. 8

**Describe the relationship between the terms in each arithmetic sequence. Then write the next three terms in each sequence.**

___ 6. 0, 5, 10, 15, …
a. 2 is added to each term; 17, 19, 21
b. 5 is added to each term; 20, 25, 30
c. 5 is added to each term; 25, 30, 35
d. 10 is added to each term; 25, 35, 45

___ 7. 18, 27, 36, 45, …
a. 7 is added to each term; 52, 59, 66
b. 8 is added to each term; 53, 61, 69
c. 9 is added to each term; 54, 63, 72
d. 10 is added to each term; 55, 65, 75

___ 8. 5.1, 6.2, 7.3, 8.4, …
a. 1 is added to each term; 9.4, 10.4, 11.4
b. 1.1 is added to each term; 9.5, 10.6, 11.7
c. 1.1 is added to each term; 9.6, 10.7, 11.8
d. 10.1 is added to each term; 18.5, 28.6, 38.7

**NUMBER SENSE Find the 40th term in each arithmetic sequence.**

___ 9. 6, 12, 18, 24, …
a. 246
b. 240
c. 48
d. 30

**Name the property shown by each statement.**

___ 10. $2p + (3q + 2) = (2p + 3q) + 2$
a. Associative Property of Addition
b. Commutative Property of Addition
c. Associative Property of Multiplication
d. Commutative Property of Multiplication

Name:_____

**chapter 5 part1 pv1**

___ 11. $2t \cdot 0 = 0$

a. Multiplicative Property of Zero

b. Multiplicative Identity

c. Additive Identity

d. Distributive Property

**State whether the following conjectures are *true* or *false*. If false, provide a counterexample.**

___ 12. The sum of two whole numbers is always larger than either whole number.

a. false; $2 + 0 = 2$

b. false; $2 + 3 = 5$

c. false; $2 + 2 = 4$

d. true

**Name the property shown by each statement.**

___ 13. $0 + 2s = 2s$

a. Multiplicative Identity

b. Commutative Property of Multiplication

c. Associative Property of Multiplication

d. Additive Identity

**Use the Distributive Property to evaluate each expression.**

___ 14. $4(12 + 3)$

a. 24

b. 51

c. 60

d. 75

**Use the Distributive Property to rewrite each expression.**

___ 15. $8(2m + 1)$

a. $16m + 8$

b. $2m + 8$

c. $16m + 1$

d. $24m$

**DINING OUT The table shows the different prices at a diner.**

| Item | Cost ($) |
|---|---|
| Sandwich | $5 |
| Drink | $2 |
| Dessert | $3 |

___ 16. Write two equivalent expressions for the total cost if two customers order each of the items.

a. ($5 + $2 + $3); $5 + $2 + $3

b. 2($5 + $2); 2 · $5 + 2 · $2

c. 2($5 + $2 + $3); 2 · $5 + 2 · $2 + 2 · $3

d. 3($5 + $2 + $3); 3 · $5 + 3 · $2 + 3 · $3

Name:_____

**chapter 5 part1 pv1**

**Answer Key**

1. b
2. a
3. c
4. a
5. c
6. b
7. c
8. b
9. b
10. a
11. a
12. a
13. d
14. c
15. a
16. c