

Student: _____
Date: _____
Time: _____

Instructor: courtney trabue
Course: GMC LSS Mathematics
Book: Martin-Gay: Developmental
Mathematics

Assignment: MAT 097 Properties of Real
Numbers (86)

1. Use the commutative property to rewrite the following expression.

$$x + 2$$

$$x + 2 = \square$$

2. Use the commutative property to rewrite the following expression.

$$-7 \cdot y$$

$$-7 \cdot y = \square$$

3. Use the associative property to rewrite the following expression.

$$6 + (a + b)$$

$$6 + (a + b) = \square$$

4. Use the associative property to rewrite the following expression.

$$6 \cdot (ab)$$

$$6 \cdot (ab) = \square$$

5. Use the associative property to simplify the following expression.

$$17 + (12 + b)$$

$$17 + (12 + b) = \square$$

6. Use the associative property to simplify the following expression.

$$2(7y)$$

$$2(7y) = \square$$

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7. Use the associative property to simplify the following expression.

$$\frac{2}{7}\left(\frac{7}{2}s\right)$$

$$\frac{2}{7}\left(\frac{7}{2}s\right) = \square$$

8. Use the distributive property to write the following expression without parentheses.

$$9(x+y)$$

$$9(x+y) = \square$$

9. Use the distributive property to write the following expression without parentheses.

$$8(3x-8)$$

$$8(3x-8) = \square$$

10. Use the distributive property to write the following expression without parentheses.

$$-3(9-5m+n)+27$$

$$-3(9-5m+n)+27 = \square$$

11. Use the distributive property to write the following expression without parentheses.

$$-(r-2-9p)+3$$

$$-(r-2-9p)+3 = \square$$

12. Use the distributive property to write the following expression without parentheses.

$$-\frac{3}{4}(8x-4y)$$

$$-\frac{3}{4}(8x-4y) = \square \text{ (Simplify your answer.)}$$

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13. Use the distributive property to write the following expression without parentheses. Then, simplify the result.

$$-4(9x+9)+2$$

$$-4(9x+9)+2 = \square$$

14. Use the distributive property to write the following sum as a product.

$$4 \cdot 2 + 4 \cdot y$$

$$4 \cdot 2 + 4 \cdot y = \square$$

15. Use the distributive property to write the following sum as a product.

$$25a + 25b$$

$$25a + 25b = \square$$

16. Choose the property illustrated by the following statement.

$$6 \cdot 5 = 5 \cdot 6$$

- A. associative property of multiplication
 B. commutative property of multiplication
 C. distributive property
 D. identity element of multiplication

17. Choose the property illustrated by the following statement.

$$3(4+2) = 3 \cdot 4 + 3 \cdot 2$$

- A. associative property of addition
 B. associative property of multiplication
 C. commutative property of multiplication
 D. distributive property

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18. Choose the property illustrated by the following statement.

$$9 + (x + 7) = (9 + x) + 7$$

- A. associative property of addition
 B. commutative property of addition
 C. distributive property
 D. identity element of addition

19. Choose the property illustrated by the following statement.

$$1 \cdot 6 = 6$$

- A. associative property of multiplication
 B. commutative property of multiplication
 C. distributive property
 D. identity element for multiplication

20. Choose the property illustrated by the following statement.

$$(5 \cdot y) \cdot 4 = 5 \cdot (y \cdot 4)$$

- A. associative property of multiplication
 B. commutative property of multiplication
 C. distributive property
 D. identity element for multiplication

21. Choose the property illustrated by the following statement.

$$0 + 5 = 5$$

- A. additive inverse property
 B. associative property of addition
 C. commutative property of addition
 D. identity element for addition