EXTRA PRACTICE - Exercises

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Unit I – The Structure of Mathematics Part C – Further Investigation of Operation Symbols Lesson 2 – Properties of Operations

Identify completely the property of operations illustrated by each of the following.

1.
8 (7 6) = (8 7) 6
2.
$$5(40 + 2) = 5 40 + 5 2$$

3.
4 2 8 5 = (4 2) (8 5)
4.
 $6(3x) = (6 3)x$

5.
 $4(2.3 + 4.9) = 4(2.3) + 4(4.9)$
6.
 $23 + (17 + 34) = (23 + 17) + 34$

7.
 $1.68 + 0.6 + 0.32 = 1.68 + 0.32 + 0.6$
8.
8 (7 6) = (7 6) 8

9.
5 (12 4) = 5 (4 12)
10.
 $6 380 = 6(300 + 80) = 6 300 + 6 80$

Use the appropriate property or properties in each of the following to perform the computation mentally. Be sure to identify each property you use.

20. 430 + 18 + 70 + 22

12. 2.8 + 4.7 + 7.211. 17 + 7 + 16 + 3 + 4 + 3 + 813. $\frac{1}{3} \frac{2}{7}$ 18 14 14. $2 + 21 + 8 + 7\frac{1}{2} + 9 + 2\frac{1}{2}$ 15. 2 (137 5) 16. 25 13 4 2 18. $\frac{9}{4} \frac{8}{5} \frac{4}{9}$ 15 17. -8.5 + (-1)[(-3) + (-2.5)]19. $99\frac{4}{9}+6\frac{2}{5}+3\frac{1}{5}+\frac{5}{9}$

EXTRA PRACTICE — Answer Key

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Unit I – The Structure of Mathematics Part C – Further Investigation of Operation Symbols Lesson 2 – Properties of Operations

Identify completely the property of operations illustrated by each of the following.

- 1. Associative Property of Multiplication
- 2. Distributive Property of Multiplication to Addition
- 3. Associative Property of Multiplication
- 4. Associative Property of Multiplication
- 5. Distributive Property of Multiplication to Addition
- 6. Associative Property of Addition
- 7. Commutative Property of Addition
- 8. Commutative Property of Multiplication
- 9. Commutative Property of Multiplication
- 10. Distributive Property of Multiplication to Addition

Use the appropriate property or properties in each of the following to perform the computation mentally. Be sure to identify each property you use.

- 11. 58, Commutative Property of Addition
- 12. 14.7, Commutative Property of Addition
- 13. 24, Commutative Propterty of Multiplication
- 14. 50, Commutative Property of Addition
- 15. 1370, Commutative Property of Multiplication and Associative Property of Multiplication
- 16. 2600, Commutative Property of Multiplication
- 17. ⁻³, Distributive Property of Multiplication to Addition and Commutative Property of Addition
- 18. 24, Commutative Property of Multiplication and Multiplication Property of 1
- 19. 109 3/5, Commutative Property of Addition
- 20. 540, Commutative Property of Addition