

Lesson 3 Homework Practice

Properties of Operations

Name the property shown by each statement. Refer to reference sheet for property names and examples.

1. $1 \cdot (a + 3) = a + 3$

2. $2p + (3q + 2) = (2p + 3q) + 2$

3. $(ab)c = c(ab)$

4. $2t \cdot 0 = 0$

5. $m(nr) = (mn)r$

6. $0 + 2s = 2s$

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

7. The product of an odd number and an even number is always odd.

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

Simplify each expression. Justify each step.

9. $2d(3) = 2(3)d$ _____

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10. $2y + (4 + 5y) = 2y + (5y + 4)$ _____

$$= (2y + 5y) + 4$$

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