

Date /2022

Name:

Name the property shown by each statement.

1. $1 \cdot 4 = 4$

2. $6 + (b + 2) = (6 + b) + 2$

3. $9(6n) = (9 \cdot 6) n$

4. $8t \cdot 0 = 0 \cdot 8t$

5. $0(13n) = 0$

6. $7 + t = t + 7$

7. $7 \cdot 1 = 7$

8. $4 + (3y + 2) = (4 + 3y) + 2$

Simplify each expression. Justify each step.

8. $(12 + x) + 9$

9. $31 + (15 + c)$

10. $(8 + d) + 19$

11. $2 \cdot (6 \cdot m)$

12. $(5 \cdot p) \cdot 3$

13. $9(4f)$

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

14. The product of two even numbers is odd.

15. The difference between two odd numbers is even.

16. Simplify $4 + (5x + 2)$. Justify each step.

10

minutes

**OUT
COMES**

At the end of the lesson, the S.s should be able to:

1. Identify properties of operations
2. Use properties to simplify algebraically expressions