

Properties

Name _____
Per _____ Date _____ Page _____*Identify the property illustrated in each of the following examples.*

1. $(4 + 3) + 2 = 4 + (3 + 2)$ _____
2. $15 + 25 = 25 + 15$ _____
3. $8 \cdot 1 = 1 \cdot 8$ _____
4. $2 \cdot 4 + 2 \cdot 7 = 2 \cdot (4 + 7)$ _____
5. $(9 \cdot 2) \cdot 5 = 9 \cdot (2 \cdot 5)$ _____
6. $2(x - 3) = 2x - 6$ _____
7. $7(a + b) = 7a + 7b$ _____
8. $2 \cdot 3 = 3 \cdot 2$ _____
9. $b + (c + d) = (b + c) + d$ _____
10. $s + t = t + s$ _____
11. $4 + (9 + 8) = (4 + 9) + 8$ _____
12. $3 \cdot 7 - 3 \cdot k = 3 \cdot (7 - k)$ _____
13. $1 \cdot (2 \cdot 3) = (1 \cdot 2) \cdot 3$ _____
14. $3 + 7 = 7 + 3$ _____
15. $15 + 25 = 5(3 + 5)$ _____
16. $2 \cdot 7 \cdot 9 = 7 \cdot 2 \cdot 9$ _____
17. $8 \cdot (8 \cdot 6) = (8 \cdot 8) \cdot 6$ _____
18. $3(x - 7) = 3x - 21$ _____

Fill in the missing numbers; then name the property illustrated.

19. $(r + \underline{\quad}) + t = \underline{\quad} + (s + t)$ _____
20. $3(5 + 4) = 3(5) + 3(\underline{\quad})$ _____