

Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Balancing Equation**

Sheet 2

Find the value of x to balance the equation. Identify the property used.

1)  $7 + (3 + 4) = (7 + x) + 4$

$x =$  \_\_\_\_\_

Property: \_\_\_\_\_

2)  $x + 6 = 6 + 5$

$x =$  \_\_\_\_\_

Property: \_\_\_\_\_

3)  $8 \times 5 = 5 \times x$

$x =$  \_\_\_\_\_

Property: \_\_\_\_\_

4)  $11 \times (3 \times 6) = (x \times 3) \times 6$

5)  $9 + x = 12 + (3 \times 4)$

$x =$  \_\_\_\_\_

Property: \_\_\_\_\_

7)  $8 + 6 = 6 + x$

$x =$  \_\_\_\_\_

Property: \_\_\_\_\_

9)  $13 \times (4 \times 6)$

$x =$  \_\_\_\_\_

Property: \_\_\_\_\_

11)  $x + (14 + 8)$

$x =$  \_\_\_\_\_

Property: \_\_\_\_\_

Property: \_\_\_\_\_

13)  $(7 \times 2) \times 12 = 7 \times (2 \times x)$

$x =$  \_\_\_\_\_

Property: \_\_\_\_\_

14)  $15 + 7 = 7 + x$

$x =$  \_\_\_\_\_

Property: \_\_\_\_\_

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**Answer key**

**Balancing Equation**

Sheet 2

1) $7 + (3 + 4) = (7 + x) + 4$ $x = 3$ Property: <b>Associative property of addition</b>	2) $x + 6 = 6 + 5$ $x = 5$ Property: <b>Commutative property of addition</b>
3) $8 \times 5 = 5 \times x$ $x = 8$ Property: <b>Commutative property of multiplication</b>	4) $11 \times (3 \times 6) = (x \times 3) \times 6$ $x = 11$ Property: <b>Associative property of multiplication</b>
5) $9 + x = 12 + 3$ $x = 12$ Property: <b>Commutative property of addition</b>	6) $3 \times 4 = 4 \times 3$ $x = 3$ Property: <b>Commutative property of multiplication</b>
7) $8 + 6 = 6 + x$ $x = 8$ Property: <b>Commutative property of addition</b>	8) $2 + 3 = 3 + x$ $x = 2$ Property: <b>Commutative property of addition</b>
9) $13 \times (4 \times 6) = 13 \times x$ $x = 24$ Property: <b>Associative property of multiplication</b>	10) $2 + (4 + 7) = 4 + x$ $x = 5$ Property: <b>Associative property of addition</b>
11) $x + (14 + 8) = 14 + (x + 8)$ $x = 3$ Property: <b>Associative property of addition</b>	12) $2 \times (3 \times 4) = 2 \times x$ $x = 12$ Property: <b>Associative property of multiplication</b>
13) $(7 \times 2) \times 12 = 7 \times (2 \times x)$ $x = 12$ Property: <b>Associative property of multiplication</b>	14) $15 + 7 = 7 + x$ $x = 15$ Property: <b>Commutative property of addition</b>

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