

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) $11 \times (3 \times 6) = (x \times 3) \times 6$ $x =$ _____ Property: _____
5) $9 + x = 12 + 9$ $x =$ _____ Property: _____	(8 × 4) _____ _____
7) $8 + 6 = 6 + x$ $x =$ _____ Property: _____	_____ _____
9) $13 \times (4 \times 6) =$ $x =$ _____ Property: _____	$0 + (4 + 7)$ _____ _____
11) $x + (14 + 8) =$ $x =$ _____ Property: _____	$x =$ _____ 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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Name: \_\_\_\_\_

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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) $9 + x = 12 + 9$ $x = 12$ Property: <b>Commutative property of addition</b>	6) $8 \times 4 = 4 \times x$ $x = 8$ Property: <b>Commutative property of multiplication</b>
7) $8 + 6 = 6 + x$ $x = 8$ Property: <b>Commutative property of addition</b>	8) $8 \times 4 = 4 \times x$ $x = 8$ Property: <b>Commutative property of multiplication</b>
9) $13 \times (4 \times 6) = (x \times 4) \times 6$ $x = 13$ Property: <b>Associative property of multiplication</b>	10) $0 + (4 + 7) = (0 + 4) + 7$ $x = 0$ Property: <b>Associative property of addition</b>
11) $x + (14 + 8) = (14 + 8) + x$ $x = 14$ Property: <b>Commutative property of addition</b>	12) $x + 5 = 5 + x$ $x = 5$ Property: <b>Commutative property of addition</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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