

Algebra Scales

Name _____

Tell if the scale will balance (equation) or tilt (inequality). If it does not balance, please write which side will tilt down. Write a reason for your answer.

1 $3 + (2 \times 3) + 5 = (2 \times 7)$
 $3 + 6 + 5 = 14 = 14$

2 $7 \times (4 + 5) > (5 + 2) + (4 \times 5)$
 $7 \times 9 = 63 > 7 + 20 = 27$

3 $(15 \div 3) \times (5 + 4) = (5 \times 1) + (57 - 17)$
 $5 \times 9 = 45 = 5 + 40 = 45$

Explain your answer.

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Write numbers in the shapes to balance the scale.

(a) $2 \times \bigcirc = 6 + (2 \times \triangle)$

(b) $(3 \times \square) + \triangle = (\triangle \times 2) - 4$

(c) $17 + (2 \times \bigcirc) = 21 + (2 \times \square)$

Parenttheses

Exponents

< Multiplication

< Division

< Addition

< Subtraction

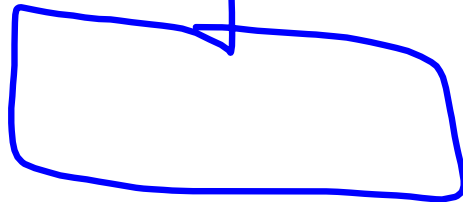
$$2^2 = 2 \cdot 2 = 4$$

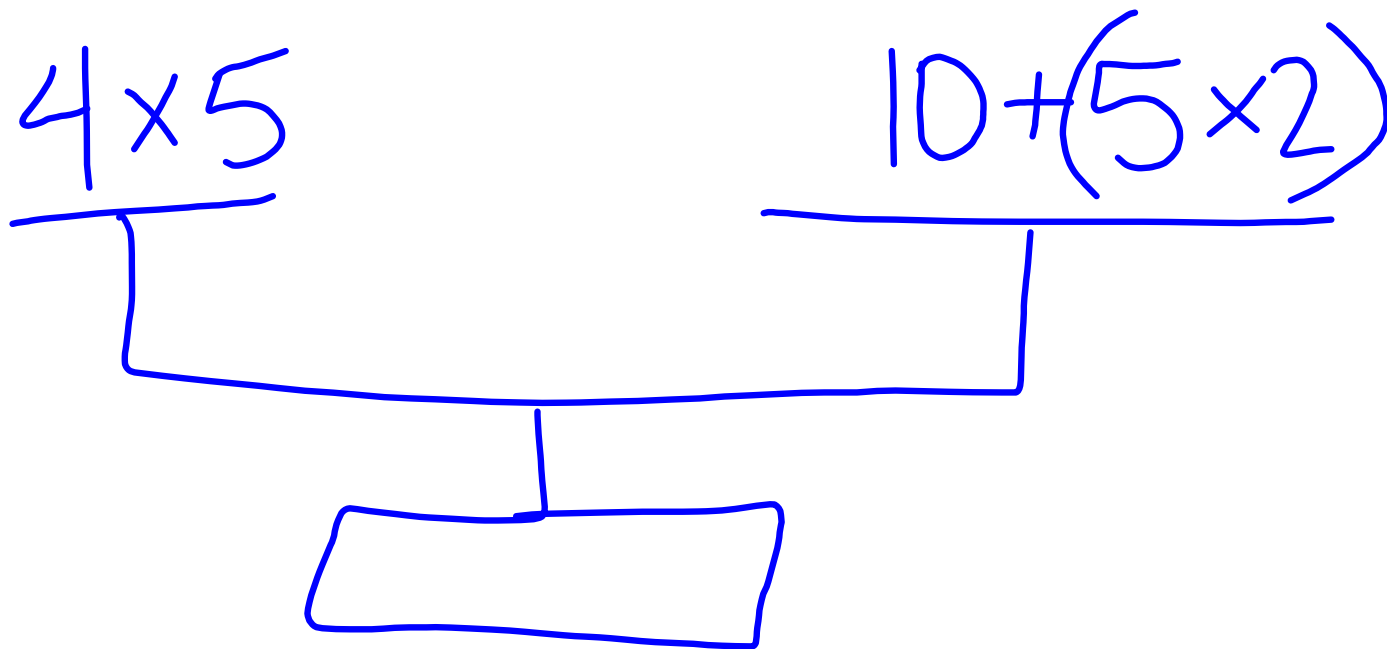
$$3^2 = 3 \cdot 3 = 9$$

$$2 \times 2 < 3 + (2 \times 3)$$

$$2 \times 2$$

$$3 + (2 \times 3)$$





$$4 \times 5 = 10 + (5 \times 2)$$

$$2 \times \textcircled{4} = 6 + (2 \times \Delta)$$
$$8 = 6 + 2$$

$$2 \times \textcircled{6} = 6 + (2 \times \Delta)$$
$$12 = 6 + 6$$

$$2 \times \textcircled{8} = 6 * (2 \times \Delta)$$
$$16 = 12$$

$$2 \times \textcircled{7} = 6 + (2 * \Delta)$$
$$14 = 6 + 8 = 14$$