

U1 LT1/2 Balance Activity and Notes

Success Criteria:

LT 1: SWBAT explain the necessary steps needed in order to solve a linear equation.

LT 2: SWBAT solve one or two step equations.

1. Addition property of equality
2. Subtraction property of equality
3. Multiplication property of equality
4. Division property of equality

a. When you add the same number to each side of an equation the two sides remain equal.

b. When you divide each side of an equation by the same nonzero number, the two sides remain equal.

c. When you multiply each side of an equation by the same nonzero number, the two sides remain equal.

d. When you subtract the same number to each side of an equation the two sides remain equal.

An equation acts as a _____, the _____ separates one side from the other.

Solve the following for the variable .

Example 1: $x + 3 = 7$



Example 2: $a + 1 = 10$

Example 3: $y - 10 = 53$

Example 4: $8 + z = 12$

$4 + x = 11$

Example 5: $5x = 25$

$-6y = 60:$

You Try... Solve for the variable

a. $11 + x = 21$

b. $2y = 44$

c. $x + 17 = 100$

Example 6: $\frac{x}{2} = 18$

$$\frac{1}{6}y = 3$$

Example 7: $\frac{2}{3}x = 6$

$$\frac{5}{3}x = 5$$

Example 8: $4x - 1 = 39$

$$-3x + 12 = -30$$

Example 9 $\frac{x}{2} + 3 = 10$

$$\frac{2}{3}x + 4 = 6$$

Exit Ticket: Solve the following for the variable

1. $w - 8 = 10$

2. $\frac{x}{4} = 10$

3. $9x + 7 = 88$

