

Variables and Equations Bell Work

Tell whether each equation is true, false, or open. Explain.

1. $-2 - 5 = -(1 + 6)$

2. $8 - 10 - 2 = 5 + 6 - 16$

3. $8x + 3 = 5x - 9$

Find the solution of each equation.

1. $8x - 3 = 13$ when $x = 2$

2. $-x = 15 - 6x$ when $x = 3$

3. $25 - 5x = -5$ when $x = 6$

Write an equation for each sentence.

1. The difference of a number x and seventeen is twenty one.

2. Nine times a number x plus three is equal to fifteen.

3. The product of seven and three is twelve times a number x .

Variables and Equations Bell Work

Answers

Tell whether each equation is true, false, or open. Explain.

1. $-2 - 5 = -(1 + 6)$

$$-7 = -(7)$$

TRUE

2. $8 - 10 - 2 = 5 + 6 - 16$

$$-4 \neq -5$$

FALSE

3. $8x + 3 = 5x - 9$

variable x

OPEN

Find the solution of each equation.

1. $8x - 3 = 13$ when $x = 2$

$$8(2) - 3 = 13$$

$$16 - 3 = 13$$

$$13 = 13$$

2. $-x = 15 - 6x$ when $x = 3$

$$-3 = 15 - 6(3)$$

$$-3 = 15 - 18$$

$$-3 = -3$$

3. $25 - 5x = -5$ when $x = 6$

$$25 - 5(6) = -5$$

$$25 - 30 = -5$$

$$-5 = -5$$

Write an equation for each sentence.

1. The difference of a number x and seventeen is twenty one.

$$x - 17 = 21$$

2. Nine times a number x plus three is equal to fifteen.

$$9x + 3 = 15$$

3. The product of seven and three is twelve times a number x .

$$7(3) = 12x$$