

## An Introduction to 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.  $8x + 3 = 5x - 9$

Tell whether the given number is a solution of each equation.

4.  $8x - 3 = 13$  when  $x = 2$

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

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

Use a table to find the solution of each equation.

7.  $-2 = 3x - 8$

8.  $5x - 12 = 13$

9.  $8x - 24 = -16$

Use a table to find two consecutive integers between which the solution lies.

10.  $16 = 3 - 2x$

11.  $2 = 3x + 9$

12.  $-4x + 10 = 43$

Write an equation for each sentence.

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

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

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