

# Solving Equations

Solve each equation by using mental math.

1.  $a + 3 = 35$  \_\_\_\_\_

2.  $1 + e = 21$  \_\_\_\_\_

3.  $3.18n = 31.8$  \_\_\_\_\_

4.  $\frac{45}{p} = 5$  \_\_\_\_\_

5.  $7m = 56$  \_\_\_\_\_

6.  $17x = 51$  \_\_\_\_\_

Solve each equation by testing the given values for a variable.

7.  $y - 9 = 11$

8.  $25k = 50$

$y = 18, 19, \text{ or } 20$  \_\_\_\_\_

$k = 1, 2, \text{ or } 3$  \_\_\_\_\_

9.  $\frac{z}{4} = 12$

10.  $29 - p = 13$

$z = 48, 49, \text{ or } 50$  \_\_\_\_\_

$p = 14, 15, \text{ or } 16$  \_\_\_\_\_

11. **Reasoning** Write an equation that has a solution of  $x = 4.3$ .

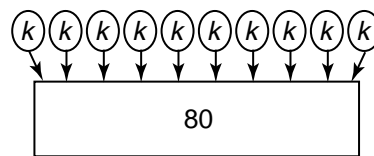
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## Test Prep

12. Which is the written equation represented by the picture at the right?



A.  $10k = 80$

B.  $5k = 80$

C.  $k = 80$

D.  $2k = 80$

13. **Writing in Math** Write a description of how mental math can be used to solve the equation  $7 = x - 3$ .

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