

## Solving Equations Using Multiplication and Division

**Solve each equation.**

1)  $20n = 80$

2)  $\frac{m}{18} = -4$

3)  $-9m = -99$

4)  $-4m = 28$

5)  $-10x = 100$

6)  $\frac{m}{10} = -1$

7)  $144 = -8x$

8)  $-6 = 6n$

9)  $\frac{n}{19} = 19$

10)  $\frac{x}{10} = 16$

11)  $\frac{k}{0.3} = 8.1$

12)  $97.44 = 8.7n$

13)  $-\frac{24}{11} = \frac{14}{11}x$

14)  $-\frac{27}{80} = \frac{3}{8}m$

**Write an equation to represent the situation. Then solve the equation.**

- 15) The wind blew away 21 of your muffins. That was  $\frac{3}{4}$  of all of them! With how many did you start?

- 16) A colony of ants carried away 18 of your muffins. That was  $\frac{6}{7}$  of all of them! With how many did you start?

- 17) Tissues cost \$5.58 / box. How many boxes did Nicole buy if she spent \$39.06?

- 18) If the weight of a package is multiplied by  $\frac{2}{7}$  the result is 8 pounds. Find the weight of the package.

- 19) Kim spent \$40.68 on six candy bars. How much did each candy bar cost?

- 20) At a restaurant, Abhasra and her ten friends decided to divide the bill evenly. If each person paid \$15, then what was the total bill?