

2-5 Skills Practice**Solving Equations Involving Absolute Value**Evaluate each expression if $a = 2$, $b = -3$, and $c = -4$.

1. $|a - 5| - 1$

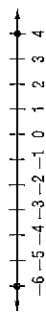
2. $|b + 1| + 8$

3. $5 - |c + 1|$

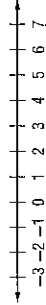
4. $|a + b| - c$

Solve each equation. Then graph the solution set.

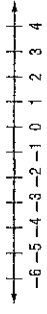
5. $|w + 1| = 5$



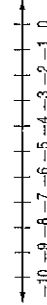
6. $|c - 3| = 1$



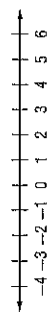
7. $|n + 2| = 1$



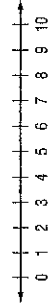
8. $|t + 6| = 4$



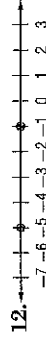
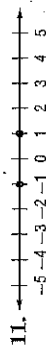
9. $|w - 2| = 2$



10. $|k - 5| = 4$



Write an equation involving absolute value for each graph.

**2-6 Skills Practice****Ratios and Proportions**

Determine whether each pair of ratios are equivalent ratios. Write yes or no.

1. $\frac{4}{5}, \frac{20}{25}$

2. $\frac{5}{9}, \frac{7}{11}$

3. $\frac{6}{7}, \frac{24}{28}$

4. $\frac{8}{9}, \frac{72}{81}$

5. $\frac{7}{16}, \frac{42}{90}$

6. $\frac{13}{19}, \frac{26}{38}$

7. $\frac{3}{14}, \frac{21}{98}$

8. $\frac{12}{17}, \frac{50}{85}$

9. $\frac{1}{a} = \frac{2}{14}$

10. $\frac{5}{b} = \frac{3}{9}$

11. $\frac{9}{g} = \frac{15}{10}$

12. $\frac{3}{a} = \frac{1}{6}$

13. $\frac{6}{z} = \frac{3}{5}$

14. $\frac{5}{f} = \frac{35}{21}$

15. $\frac{12}{7} = \frac{36}{m}$

16. $\frac{6}{28} = \frac{y}{69}$

2-7 Skills Practice**Percent of Change**

State whether each percent of change is a percent of *increase* or a percent of *decrease*. Then find each percent of change. Round to the nearest whole percent.

1. original: 25
new: 10

2. original: 50
new: 75

3. original: 55
new: 50

4. original: 25
new: 28

Find the total price of each item.

9. dress: \$69.00
tax: 5%

10. binder: \$14.50
tax: 7%

11. hardcover book: \$28.95
tax: 6%

12. groceries: \$47.52
tax: 3%

Find the discounted price of each item.

17. backpack: \$56.25
discount: 20%

18. monitor: \$150.00
discount: 50%

19. CD: \$15.99
discount: 20%

20. shirt: \$25.50
discount: 40%