

## Cumulative Review (Chapters 1–3)

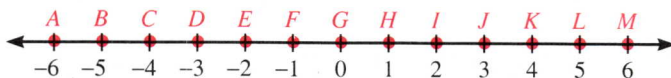
**Simplify.**

- $45 - 2(16 - 6)$
- $\frac{56 \div 7}{16}$
- $48 \div (9 + 3)$
- $|-21| - |-14|$
- $31 - [35 \div 5]$
- $48 \div 3 + 7(3)$
- $-55 - (-42 + 7)$
- $-22 + 31 + (-44) + 50$
- $1\frac{1}{3} - 10\frac{1}{4} + 12\frac{2}{3}$
- $2.4 + 5.1 - 6.3$
- $9 + x - (5 - x) - 6$
- $4(x + 3y) - 3(x - 4y)$
- $-5(42)\left(-\frac{2}{5}\right)\left(-\frac{1}{3}\right)$
- $-5(-a - b) + 5(a + b)$
- $\frac{85xy}{5y}; y \neq 0$

**Evaluate if  $w = 2$ ,  $x = -3$ ,  $y = \frac{1}{2}$ , and  $z = 3$ .**

- $w - |z - x|$
- $\frac{4y - x}{w + z}$
- $-5(x + w)$
- $-w + 2x + 4y$

**State the coordinate of the given point.**



- The point halfway between  $F$  and  $G$ .
- The point halfway between  $B$  and  $C$ .

**Solve. If the equation is an identity or has no solution, state that fact.**

- $|x| = 3$
- $|y| = -2$
- $x + 7 = 12$
- $z + 1 = -3$
- $y + 2 = 9$
- $(x - 3) + 17 = 30$
- $\frac{a}{3} = -14$
- $9 = \frac{1}{2}q$
- $2x + 6 = -2$
- $\frac{1}{2}(2x + 4) = 2x$
- $16 = \frac{3}{4}k + 1$
- $5(z - 3) = 40$
- $5y - 2 = 7y + 8$
- $9(2 - b) = b$
- $3(x - 4) = 6(x - 3)$

**Solve.**

- A honeydew melon costs four times as much as a peach. Together they cost \$1.50. How much does each cost?
- Find three consecutive integers whose sum is 87.
- Thirty-eight employees at High Tech Sales ride to work on the subway. This represents  $\frac{2}{5}$  of the employees. How many employees are there?
- Rory has 30 coins (all nickels and dimes). He has five times as many nickels as dimes. How much money does he have?