

CHAPTER TEST

CHAPTER 3

Simplify each expression. Justify each step.

- $12 \cdot 7 \cdot \frac{3}{2}$
- $39 + 52 + 11$
- $(25 \cdot 9) \cdot 4$
- $2.1 + (6.5 + 4.9)$

Simplify.

- $7x + 5x$
- $2y + 2z + 2$
- $3(s + 2) - s$
- $m + 3m - 3$
- $6n + 1 - n + 5n$
- $10b + 8(b - 1)$

Solve.

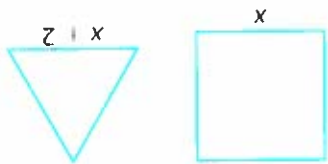
- $10x - 2x = 16$
- $\frac{3x + 5}{5} = 8$
- $4c + 6 + 2c = 24$
- $\frac{5}{2}b - \frac{1}{4}b = 3$
- $15 - 6g + 8 = 19$
- $10x - 2x = 16$
- $\frac{5}{2}b - \frac{1}{4}b = 3$

- On her last three quizzes, Elise scored 84, 96, and 88. What grade must she get on her next quiz to have an average of 90 for all four quizzes?

Solve.

- $3x + 13 = x + 1$
- $m + 5 = m - 3$
- $q + 7 = 2q + 5$
- $-3a + 9 = 3a - 9$
- $8n + 24 = 3n + 59$
- $\frac{3z}{2} - \frac{3}{17} = \frac{3}{2z} - \frac{2}{3}$

- The square and the equilateral triangle have the same perimeter. Find the perimeter of each figure.



Solve and graph.

- $-12 \geq \frac{4}{h}$
- $-36 \leq 6y$
- $-56 < -7m$
- $\frac{-4}{b} < 8$
- $n - 14 \leq -3$
- $8 < 22 + p$
- $-4 + n \leq -20$
- $8 + z > -6$

- Glenda has a \$40 gift certificate to a cafe that sells her favorite tuna sandwich for \$3.75 after tax. What are the possible numbers of tuna sandwiches that Glenda can buy with her gift certificate?

Solve and graph.

- $6m + 4 > 2$
- $8 - 3p > 14$
- $\frac{4}{3} - \frac{8}{c} < \frac{1}{2}$
- $4z + 4 \geq -8$
- $\frac{10}{x} + \frac{1}{2} \geq \frac{5}{5}$
- $\frac{3}{2} > \frac{1}{1} - \frac{d}{6}$