

# Cumulative Review (Chapters 1–10)

## Exercises

Perform the indicated operations.

- $36 \times 14 \div 4$
- $(88 + 79)7$
- $(137 - 21) \div 4$
- $0.39 \times 4.2 \times 5$
- $15.2 \div 3.8 \times 1.06$
- $25.5 \div 1.7 \div 0.05$
- $(2.48 + 4.92)1.1$
- $(7.021 - 1.021)0.21$
- $(2.879 + 5.249) \div 2.54$
- $\frac{1}{8} + \frac{3}{10} + \frac{13}{20}$
- $\frac{49}{50} - \frac{2}{5} - \frac{1}{2}$
- $6\frac{2}{3} - 2\frac{1}{4} + 1\frac{5}{8}$
- $\frac{11}{7} \times \frac{42}{33} \times \frac{5}{2}$
- $3\frac{1}{8} \times 2\frac{2}{3} \times 1\frac{1}{2}$
- $\frac{27}{16} \times \frac{10}{39} \div \frac{3}{13}$

Evaluate the following for  $x = 0.24$ ,  $y = 15$ , and  $z = 3$ .

- $xy + yz$
- $xy^2$
- $4xyz$
- $z^2x$
- $2xyz + y^2z$
- $2(x + y) + z^2$

Find the area. Use  $\pi \approx 3.14$  and round to three digits.

- square  
side: 14 cm
- circle  
radius: 3.5 ft
- rectangle  
length: 18 mm  
width: 11 mm
- trapezoid  
bases: 30 m, 46 m  
height: 12 m

Solve.

- $7x = 266$
- $y - 106 = 29$
- $4a - 59 = 33$
- $3c + 71 = 173$
- $r + 2.463 = 8.401$
- $3.21x = 21.507$
- $0.31z - 4.09 = 1.6512$
- $2.4y + 3.79 = 19.534$
- $\frac{2}{3}r - \frac{5}{12} = \frac{7}{8}$
- $\frac{5}{9}c + \frac{3}{4} = \frac{81}{10}$
- 42% of 125 is what number?
- 2.5% of 32 is what number?
- 48 is 6% of what number?
- 39 is what percent of 52?
- 3 is what percent of 120?
- 17 is 20% of what number?