

# PRACTICE PROBLEMS 2

**Represent the following with an appropriate model.**

1.  $\frac{3}{7}$
2. 0.29
3.  $\sqrt{5}$

**Add. Use an appropriate model to demonstrate.**

4.  $\frac{1}{3} + \frac{2}{5}$
5.  $\frac{3}{4} + \frac{1}{2}$
6.  $0.35 + 0.42$
7.  $1.5 + 1.27$
8.  $(2x^2 - 3x + 1) + (x^2 + 4x - 5)$

**Subtract. Use an appropriate model to demonstrate.**

9.  $\frac{4}{5} - \frac{1}{2}$
10.  $0.7 - 0.36$
11.  $1.3 - 0.64$
12.  $(2x^2 - 3x + 1) - (x^2 + 4x - 5)$

**Multiply. Use an appropriate model to demonstrate.**

13.  $\frac{2}{3} \times \frac{3}{4}$
14.  $1\frac{4}{5} \times 1\frac{2}{3}$
15.  $0.3 \times 0.7$
16.  $1.2 \times 2.4$
17.  $(3x + 1)(x - 4)$

**Divide. Use an appropriate model to demonstrate.**

18.  $\frac{4}{5} \div \frac{1}{2}$
19.  $\frac{3}{5} \div \frac{2}{3}$
20.  $0.7 \div 0.2$
21.  $(2x^2 - 4x - 5) \div (x - 5)$

**Solve the missing side of the right triangle. Simplify answer completely.**

22.  $a = 9, b = 12$
23.  $a = 5, c = 13$
24.  $a = 4, b = 7$
25.  $a = 5, b = 17$