Homework

Activity 1

Substitute the value for the variable.

1. $a + 12 = 27$
2. $35 - b = 32$
3. $\frac{1}{5} + \frac{2}{5} = c$
4. $8 \cdot 6 = d$
5. $e \div 9 = 7$
6. $\frac{1}{10} \cdot \frac{3}{4} = f$

Activity 2

Select the ratio that represents the statement.

1. There are 25 students in the class and 15 are boys. What is the boy-to-girl ratio?
   (a) 25 to 15
   (b) 12 to 15
   (c) 15 to 10

2. In a survey of 100 students, 67 watch TV every night. What is the ratio of students who watch TV every night to total students?
   (a) 67 to 100
   (b) 33 to 100
   (c) 33 to 67

3. There are 302 students in the freshman class. Of the students, 150 are taking algebra and 152 are taking geometry. What is the ratio of students taking algebra to students taking geometry?
   (a) 150 to 152
   (b) 152 to 150
   (c) 150 to 302

4. There are 10 houses on your street. Of the owners, 5 have dogs, 2 have cats, and 3 have no pets. What is the ratio of people who do not have pets to the total number of houses?
   (a) 5 to 10
   (b) 2 to 10
   (c) 3 to 10

5. The radio station awarded prizes to 3 callers out of 30 callers during the morning show today. What is the ratio of non-prize winners to prize winners?
   (a) 3 to 30
   (b) 27 to 30
   (c) 27 to 3

Homework

Activity 3

Tell whether the statements are true or false.

1. The ratio of hearts to diamonds in a hand of cards is 3 to 2. This is a part-to-whole comparison.
2. Fractions always compare part-to-whole relationships.
3. Ratios always compare part-to-whole relationships.
4. If you have a power tool that requires an oil-to-gas ratio of 1 to 16, this means you need to put 1 part of oil for every 16 parts of gas.

Activity 4 • Distributed Practice

Solve.

1. $\frac{5}{8} \cdot \frac{3}{5}$
2. $192.37 + 246.85$
3. $\frac{8}{9} - \frac{1}{3}$
4. $125.07 + 229.37 + 889.11 + 507.07$
5. $\frac{5}{9} \div \frac{3}{5}$
6. $1.22 \cdot 0.02$
7. $101.01 - 99.99$
8. $\frac{5}{6} + \frac{1}{9} + \frac{1}{2}$