

Name : \_\_\_\_\_

# Rates, Ratios, and Proportions Worksheet

1 Write each ratio in three different forms. One is done for you.

a) 8 boys to 6 girls  $\frac{8}{6} = \frac{4}{3}$  8:6 or 4:3 8 to 6 or 4 to 3

b) 16 flowers to 12  
flower vases \_\_\_\_\_

c) 4 boats to 12  
ships \_\_\_\_\_

d) 10 birds to 12  
animals \_\_\_\_\_

2 There are 42 boys to 36 girls in a class.

a) Write the boys:girls in the class (simplify) \_\_\_\_\_

b) Write the boys:total number of students (simplify) \_\_\_\_\_

c) Write the girls:total number of students (simplify) \_\_\_\_\_

3 Solve each proportion.

a)  $\frac{k}{12} = \frac{3}{4}$

b)  $\frac{3}{14} = \frac{9}{6}$

c)  $\frac{12}{11} = \frac{3}{e}$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name : \_\_\_\_\_

# Rates, Ratios, and Proportions Worksheet

## Answers

1 Write each ratio in three different forms. One is done for you.

a) 8 boys to 6 girls  $\frac{8}{6} = \frac{4}{3}$  8:6 or 4:3 8 to 6 or 4 to 3

b) 16 flowers to 12  
flower vases  $\frac{16}{12} = \frac{4}{3}$  16:12 or 4:3 16 to 12 or 4 to 3

c) 4 boats to 12  
ships  $\frac{4}{12} = \frac{1}{3}$  4:12 or 1:3 4 to 12 or 1 to 3

d) 10 birds to 12  
animals  $\frac{10}{12} = \frac{5}{6}$  10:12 or 5:6 10 to 12 or 5 to 6

2 There are 42 boys to 36 girls in a class.

a) Write the boys:girls in the class (simplify) 7:6

b) Write the boys:total number of students (simplify) 7:13

c) Write the girls:total number of students (simplify) 6:13

3 Solve each proportion.

a)  $\frac{k}{12} = \frac{3}{4}$

b)  $\frac{3}{14} = \frac{9}{6}$

c)  $\frac{12}{11} = \frac{3}{e}$

k = 9

g = 1.29

e = 2.75