

# Proportions Worksheet

Name \_\_\_\_\_

Solve each proportion for the variable.

1)  $\frac{n}{8} = \frac{12}{16}$

2)  $\frac{3}{k} = \frac{5}{15}$

3)  $\frac{18}{30} = \frac{y}{4}$

4)  $\frac{2.8}{4} = \frac{7}{x}$

5)  $\frac{8}{20} = \frac{30}{c}$

6)  $\frac{24}{n} = \frac{30}{100}$

7)  $\frac{1}{c+5} = \frac{2}{3}$

8)  $\frac{8}{b+10} = \frac{4}{2b-7}$

9)  $\frac{0.24}{a} = \frac{3}{9.6}$

10)  $\frac{17}{8.5} = \frac{z}{0.01}$

11)  $\frac{x+3}{4} = \frac{7}{8}$

12)  $\frac{n+12}{4} = \frac{n}{16}$

Set up a proportion to solve each word problem. (You may use the back to show your work)

- 13) Zach can read 7 pages of a book in 5 minutes. At this rate, how long will it take him to read the entire 175 page book? (Convert your final answer to hours and minutes)
- 14) Shannon's bicycle travels 50 feet for every 3 pedal turns. How many pedal turns are needed to travel one mile (1 mile = 5,280 feet)?
- 15) A cookie recipe for 5 dozen cookies calls for 4 cups of flour. How much flour is needed to make 90 cookies?
- 16) A man can make 12 birdhouses in 8 hours. How many hours will it take him to make 30 birdhouses?