Name

Date _____

Proportions

| Solve each proportion. | | |
|---|---|--|
| $\frac{3}{7} = \frac{x}{49}$ $\frac{147}{7} = \frac{7x}{7}$ | $3 \cdot 49 = 7x$ 21 = x | |
| 1. $\frac{8}{6} = \frac{m}{27}$ | 9. $\frac{18}{15} = \frac{6}{x}$ | |
| 2. $\frac{z}{3} = \frac{8}{15}$ | $10. \frac{121}{x} = \frac{220}{100}$ | |
| 3. $\frac{16}{40} = \frac{24}{c}$ | 11. $\frac{1.6}{x} = \frac{14}{21}$ | |
| 4. $\frac{9}{p} = \frac{5}{2}$ | $12. \frac{x}{168} = \frac{66^{\frac{2}{3}}}{100}$ | |
| 5. $\frac{1.8}{x} = \frac{3.6}{2.4}$ | 13. $\frac{x}{32} = \frac{37^{\frac{1}{2}}}{100}$ | |
| $6. \frac{4}{5} = \frac{0.8}{\gamma}$ | 14. $\frac{16}{48} = \frac{x}{100}$ | |
| 7. $\frac{x}{2} = \frac{15}{5}$ | 15. $\frac{0.12}{.25} = \frac{x}{100}$ | |
| 8. $\frac{18}{12} = \frac{24}{x}$ | 16. $\frac{1.5}{x} = \frac{0.07}{0.14}$ | |

Date

Problems Using Proportions

| Three loaves of bread cost | \$3.87. How much do 2 loaves cost? | |
|----------------------------|--|--|
| number of loaves cost | $\frac{3}{3.87} = \frac{2}{x}$ | |
| | $3x = 2 \cdot 3.87$ $\frac{3x}{3} = \frac{7.74}{3}$ x = 2.58 | |
| 2 loaves cost \$2.58 | | |

- 1. If 64 feet of rope weigh 20 pounds, how much will 80 feet of the same type of rope weigh?
- 2. If a 10 pound turkey takes 4 hours to cook, how long will it take a 14 pound turkey to cook?
- 3. An 18 ounce box of cereal costs \$2.76. How many ounces should a box priced at \$2.07 contain?
- 4. Mike and Pat traveled 392 miles in 7 hours. If they travel at the same rate, how long will it take them to travel 728 miles?
- 5. If 2 pounds of turkey costs \$1.98, what should 3 pounds cost?
- 6. If 2 liters of fruit juice cost \$3.98, how much do 5 liters cost?
- 7. A 12 ounce box of cereal costs \$.84. How many ounces should be in a box marked \$.49?
- 8. Janie saw an advertisement for a 6 ounce tube of toothpaste that costs \$.90. How much should a 4 ounce tube cost?

~

lame

0.5