

Name: _____

Date: _____ Per: _____

Lesson 7.2.1 Homework

7-100. Find the missing value in each of the pairs of equivalent ratios below.

a. $\frac{x}{10} = \frac{6}{15}$

b. $\frac{12}{9} = \frac{8}{x}$

c. $\frac{16}{38} = \frac{200}{m}$

7-101. Samantha's parents are going to paint her room. Her color choices for the walls include three different shades of white, four shades of tan, two shades of blue, three shades of green, and four shades of pink. What is the probability that she will randomly select any shade of blue or pink?

7-102. The local sports shop has backpacks on sale for \$28. The original price was \$40. What is the percent decrease for the backpack price?

7-103. Simplify the expressions below.

a. $\frac{3}{4} - \frac{1}{3} + (-\frac{5}{24})$

b. $\frac{10}{12} \div \frac{1}{4}$

c. $3\frac{1}{2} \cdot 1\frac{3}{8}$

d. $-\frac{20}{7} \div \frac{1}{3}$

e. $-\frac{8}{25} \cdot (-\frac{15}{32})$

f. $\frac{9}{4} \div (-\frac{2}{3})$

g. $\frac{8}{21} + (-\frac{3}{7})$

h. $\frac{7}{4} \cdot (-\frac{2}{5}) \cdot \frac{3}{5}$