

Unit 8 Review Worksheet I—Ratios/Rates/Proportions/Percents

Part I: Express each ratio three different ways. Reduce your ratios if possible.

1) Clubs to spades: _____



2) Diamonds to clubs: _____



3) Diamonds to all suits: _____

4) Spades to all suits: _____

Part II: Solve. Show all work.

5.)

$$\frac{x}{24} = \frac{3}{4}$$

6.)

$$\frac{2}{3} = \frac{q}{48}$$

7.)

$$\frac{5}{8} = \frac{20}{m}$$

Part III: Solve. Use a variable to stand for the unknown amount. Use the given boxes for your labels.

8) Rob used 5 slices of bologna for every 3 slices of bread he used. How many slices of bread will he need for 35 slices of bologna?

$$\boxed{} \text{ slices of bologna} = \frac{\boxed{} \text{ slices of bread}}{\boxed{} \text{ slices of bologna}}$$

9) Farmer Joe has lots of rabbits and lots of predators on his farm. Only 3 out of every 10 rabbits live long enough to reproduce. At this rate, how many rabbits will there need to be in order for 27 of them to reproduce?

$$\boxed{} \text{ rabbits} = \frac{\boxed{} \text{ rabbits}}{\boxed{} \text{ rabbits}}$$

10) Bonnie's recipe calls for 4 cups of brown sugar for every 3 cups of good old granulated sugar. If she needs 24 cups of brown sugar, how much total sugar will she need?

$$\boxed{} \text{ cups of brown sugar} = \frac{\boxed{} \text{ cups of granulated sugar}}{\boxed{} \text{ cups of brown sugar}}$$