

You may use a calc. on this worksheet.

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

A, B, C 1) Clubs to spades: _____



A, B, C 2) Diamonds to clubs: _____



A, B, C, Acc 3) Diamonds to all suits: _____

A, B, C 4) Spades to all suits: _____

A, B, C, Acc 5) Zach wants to find the ratio of his T-shirts to jeans. He has 14 t-shirts and 9 pairs of jeans. Describe and correct his error below:

$$\frac{T - shirts}{jeans} = \frac{9}{14}$$

A, B, C, Acc 6) Write the ratio in three different ways: For a fund raiser, the ratio of tickets you sold to tickets your friend sold was 11 to 5.

Now tell if this means that you sold 11 raffle tickets and your friend sold 5. Explain your reasoning.

A, B, C 7) Fill in the blank with <, >, or =

Acc

a) $9:15$ _____ $8:20$

b) $10:12$ _____ $48:72$

c) $51:39$ _____ $36:27$

d) $12:16$ _____ $21:28$

A, B, C 8) Find the unit rate.

Acc

a) $\frac{12 L}{2 days}$

b) $\frac{\$21}{6 oz}$

c) $\frac{24 servings}{9 packages}$

C, Acc 9) A recipe for rice pudding uses $\frac{1}{2}$ cup of rice and serves 6 people.

- a) Write the cups of rice per person as a unit rate.
- b) How many cups of rice do you need to serve 75 people?
- c) One cup of rice weighs 6.4 ounces. How many ounces of rice do you need to serve 75 people?
- d) A 1-pound box of rice costs \$.99. How much does the rice for 75 servings of rice pudding cost? Explain your reasoning.

A, B, C 10) Determine which is the better buy: (show your work, but you can use a calculator)

Acc

- a) 6 oz. can of tuna for \$1.25 or 9oz. can of tuna for \$1.99
- b) 16 oz. bottle of salad dressing for \$2.29 or 20 oz. bottle of salad dressing for \$2.89

A, B, C 11) Solve the proportion

Acc

a) $\frac{15}{20} = \frac{x}{4}$

b) $\frac{4}{36} = \frac{w}{9}$

c) $\frac{51}{z} = \frac{3}{2}$

A, B 12) A recipe that makes 12 pints of salsa uses 35 tomatoes. Write a proportion that you can use determine the number of tomatoes needed to make 2 pints of salsa. Then solve your proportion.

13) Write and solve the proportion:

A, B, C, a) 8 is to 3 as w is to 12
Acc

A, B, C b) p is to 30 as 10 is to 12

A, B, C c) 36 is to 42 as d is to 28

A d) 6 is to 16 as z is to 40

A, B, C 14) The average person blinks about 360 times in 30 minutes. How many times does the average person blink in 9 minutes? (show your proportion)

A, B, C, 15) The ratio of the number of Taylor's CDs to the number of Dave's CDs is 7 to 8. Taylor has 84 CDs. Together how many CDs do they have?
Acc

B, C 16) At a typical NFL game, the ratio of males to females in attendance is 3:2. There are 12,000 female spectators. What is the ratio of the number of male spectators to the total number of spectators?

A, B 17) 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?

C, 18) 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?
Acc

A, B, C 19) 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?