Buckley or Gietzen

- **1.** Decide whether the ratios below are <u>equivalent</u>. Write YES or NO below each set. Show work to PROVE whether the ratios are equivalent or not.
  - **a.** 7:9 = 21:27 **b.**  $\frac{15}{18} = \frac{3}{4}$
  - **c.** 5 to 4 = 4 to 5 **d.** 2 cats to 3 dogs = 22 cats to 33 dogs
- **2.** Michael and Jacob are training to run a marathon. They keep track of their practice runs and one day they compare their distances.
  - **a.** Jacob says he ran **twice** as far as Michael. Give two more possibilities for the ratio of Jacob's distance to Michael's distance.

12 miles : 6 miles

**b.** The next day, Michael says the ratio of the distance he ran to the distance Jacob ran was **5:4**.

If Michael ran 15 miles, how far did Jacob run?

- **3.** Joey stops at the gas station to buy gas. The car has a 16-gallon tank, and the fuel gauge says there is  $\frac{3}{8}$  of a tank of gas.
  - **a.** <u>How many gallons</u> of gas are in the tank right now?
  - **b.** If Joey buys 6 gallons of gas, <u>what fraction</u> of the tank will the fuel gauge read after he adds the 6 gallons?

## **#4-10: MULTIPLE CHOICE**

Circle the best choice. (Put ratios in *simplest form*.)

- **4.** Rose has a playlist with 40 rock songs and 28 country songs. What is the ratio of country songs to rock songs on the playlist?
  - A. 7:10
  - B. 1:40
  - C. 40:1
  - D. 10:7
- **5.** Blake has a garden in his backyard. He picked 44 tomatoes from 4 tomato plants. What is the ratio of tomato plants to tomatoes picked?
  - A. 1:11
  - B. 11:1
  - C. 1:4
  - D. 4:1
- **6.** Juan plays little league baseball. In 27 at-bats, he had 9 hits. What is the ratio of at-bats to hits? A. 1:3
  - B. 9:1
  - C. 1:9
  - D. 3:1
- **7.** A building has 45 apartments and 50 bathrooms. What is the ratio of apartments to bathrooms? A. 45:1
  - B. 10:9
  - C. 1:45
  - D. 9:10
- **8.** Over time, Bailey has buried 4 large bones and 6 small bones in a hole. What is the ratio of small bones to large bones in the hole?
  - A. 3:2
  - B. 3:5
  - C. 2:3
  - D. 5:3
- **9.** The ratio of french fries to packets of ketchup in Philip's bag is 7:1. What does this mean? A. There are 6 more french fries than packets of ketchup.
  - B. There are 7 more french fries than packets of ketchup.
  - C. For every 7 packets of ketchup, there is 1 french fry.
  - D. For every 7 french fries, there is 1 packet of ketchup.
- **10.** George has a box of chocolates. There are 9 pieces of dark chocolate and 15 pieces of milk chocolate in the box. What is the ratio of pieces of dark chocolate to pieces of milk chocolate?
  - A. 5:3
  - B. 1:15
  - C. 3:5
  - D. 15:1

- **11.** Two boys were playing checkers. The ratio of games Dave won to games Josh won was 10:7. If Dave won 40 games, how many games did Josh win?
- **12.** A restaurant offers diet soda and regular soda. In one day they sold 24 diet sodas. If the ratio of diet sodas sold to regular sodas sold was 1:3, how many **regular** sodas were sold?

How many **total** sodas were sold? \_\_\_\_\_

**13.** At a carnival Luke bought 10 tickets. If he used 3 tickets trying to win the ring toss game, what is the ratio of <u>tickets he now has</u> to <u>tickets he's used</u>?

\_\_\_\_\_ to \_\_\_\_\_

**14.** At a restaurant the ratio of kid's meals sold to adult meals sold was 9:2. If there were 81 kids meals sold, how many adult meals were sold?

15. Luis made 6 pizzas, which he sliced into fourths.a. Draw a picture of the 6 pizzas, cut into fourths:

**b.** How many <u>total slices</u> of pizza will he have? \_\_\_\_\_

**c.** After considering how many people he would be serving, he thought to himself, "Each person can have 3 slices." How many <u>people</u> did he make the pizza for?

**16.** Write a **ratio** to compare the number of <u>circles</u> to the number of <u>squares</u>.

If the ratio remains the same, <u>how many squares</u> will you have if you have 24 circles?

\_\_\_\_\_:\_\_\_\_

\_\_\_\_\_squares

**17.** Solve for x to make an **equivalent fraction**.

**a.** 
$$\frac{10}{45} = \frac{2}{x}$$
  $x =$ 

**b.** 
$$\frac{6}{7} = \frac{x}{21}$$
  $x =$ \_\_\_\_\_

**c.** 
$$\frac{9}{4} = \frac{x}{28}$$
  $x =$ \_\_\_\_\_

18. Use the following information to fill in the table below: "Four large pizzas contains 32 slices."

**a.** Fill in the table.

Slices		16	32		72
Pizza	1		4	7	

