Homework #8: Due Friday, Nov. 8

Name_____

Buckley or Gietzen

1. In a sixth grade class, the **ratio** of girls to boys is 2:1.

   a. Write an equivalent ratio to show how many girls and boys *might* be in this class.

   b. Is there more than one possible answer? EXPLAIN.

2. Look at the picture below. Write **three** comparison statements using the information on the banner.

***Example**: The 8th grade's goal is one-third of the 7th grade's goal.*

1. _____

2. _____

3. _____

3. The table below shows students' reading preferences:

Harry Potter	35 students
Hunger Games	25 students
Maze Runner	40 students
TOTAL	**100 students**

a. What is the **ratio** of students who chose **Harry Potter** to those who chose **Hunger games?**

_____ to _____

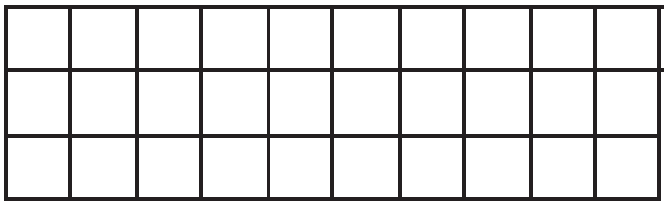
What is this **ratio** in simplest form? _____ to _____

b. What is the **ratio** of students who chose **Maze Runner** to **the Total**? _____ to _____

What is this **ratio** in simplest form? _____ to _____

4. Katie said, "The **ratio** of people to pets in my family is 3 to 1. For every three people we have one pet." If her family has two pets, how many people are in the family?

5. Shade in the grid below to show an amount **equivalent** to $\frac{4}{5}$:



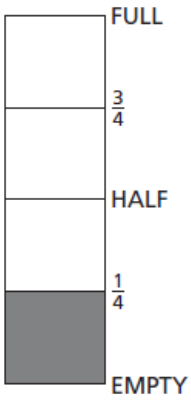
6. Blake was listening to his favorite radio station. He noticed that during one hour, **12 songs were country** and **9 of them were rock and roll**.

a. What is the ratio of <u>country</u> **to** <u>rock & roll</u> songs? _____

b. Write that ratio in simplest form: _____

7. When full, Trey's truck's fuel tank can hold **16-gallons**.
The fuel gauge is currently $\frac{1}{4}$ full.

a. How many **gallons** of gas are currently in his car?



b. If Trey adds 8 gallons of gas (on top of what is already in there), what **fraction** of the tank will it now be up to?

8. Put the following ratios into *simplest form*.

a. 44 to 8 _____

b. 9 : 90 _____

c. 28 to 16 _____

d. 12 to 42 _____

e. 125 : 50 _____

9. A sixth grade class has 18 girls and 12 boys.

a. A student in that class made this statement: ***For every 6 girls, there are 4 boys.*** Do you agree with this statement? EXPLAIN/Show Work.

b. Write **two** more equivalent ratios comparing the number of girls in the class to the number of boys.

1. _____ to _____

2. _____ to _____

10. A bag contains 24 marbles.

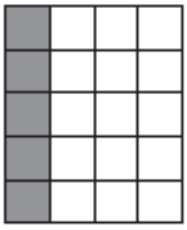
a. If 16 of the marbles are removed from the bag, how many marbles **are left in the bag?** _____

b. What is the ratio of the marbles that were removed to the marbles that are left in the bag?

_____ to _____

c. Write this ratio in simplest form: _____ to _____

11. Which of the following fractions are **equivalent** to the amount of the grid that is shaded?



Circle **ALL** that apply.

A. $\frac{3}{12}$ B. $\frac{1}{5}$ C. $\frac{15}{20}$ D. $\frac{1}{4}$