Homework #14

Due Friday, January 10

Name_____

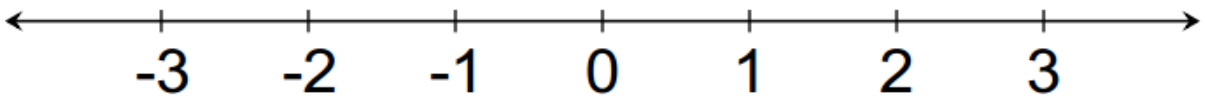
Buckley or Gietzen

1. Put the following numbers in order from **least** to **greatest**. Then place on the number line below.

0.7 2.8 -0.49 -1.6 0.02 -2.99

a. Put in order: _____

b. Place on number line:



2. Decide whether each pair of fractions is ***equivalent*** or ***not equivalent.*** Show work to PROVE your answer.

a. $-\frac{7}{3}$ and $-\frac{15}{6}$

b. $\frac{2}{3}$ and $\frac{12}{18}$

3. I spend $36 on 4 pizzas. What is my unit price? _____

4. I drive 150 miles in 3 hours. What is my unit rate? _____

5. 30 muffins are in 5 packages. What is the unit rate? _____

For Exercises 6 & 7, use the data in the table below. *(**100 total** cats were weighed.)*

Distribution of Cat Weights

Weight (lb)	Males		Females	
	Kitten	Adult	Kitten	Adult
0–5.9	8	1	7	4
6–10.9	0	16	0	31
11–15.9	2	15	0	10
16–20	0	4	0	2
Total	**10**	**36**	**7**	**47**

6. **a.** What fraction of the cats are **female**? _____

b. What fraction of the cats are **male**? _____

c. Write each fraction from above as a decimal and as a percent.

Females: _____ and _____ ***Males***: _____ and _____

7. **a.** What fraction of the cats are **kittens**? _____

b. What fraction of the cats are **adults**?_____

c. Write each fraction as a decimal and a percent.

Kittens: _____ and _____ ***Adults***: _____ and _____

8. Multiple Choice What is the correct percent for a quiz score of 14 points out of 20?

A. 43% **B.** 53% **C.** 70% **D.** 75%

9. Multiple Choice What is the correct percent for a quiz score of 26 points out of 60?

A. about 43% **B.** about 57% **C.** about 68% **D.** about 76%

10. Write each fraction or decimal as a percent. Write the percent (without the percent sign) in the puzzle.

ACROSS

1. $\frac{3}{5}$

2. $\frac{1}{5}$

3. 0.55

5. 0.23

6. $\frac{7}{20}$

7. 0.17

9. 0.4

10. $\frac{9}{25}$

DOWN

1. $\frac{13}{20}$

2. 0.25

3. $\frac{1}{2}$

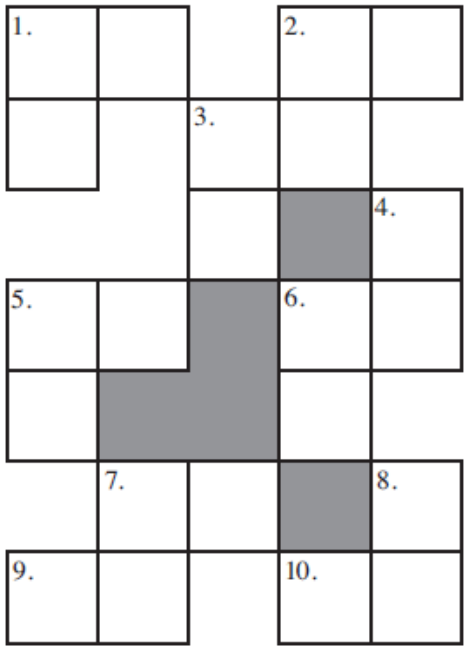
4. $\frac{3}{20}$

5. 0.24

6. $\frac{3}{10}$

7. 0.1

8. $\frac{4}{25}$



11. Jessica used all of a piece of lumber to build a bookshelf. If she made **three** shelves that are each $\mathbf{2\frac{1}{2}}$ **feet** long, how long was the piece of lumber?

12. Deanna's cake recipe needs to be **doubled** for a party. How much of each ingredient should she use?

Cake Recipe		
Ingredient	*Amount*	*Doubled amount*
flour	$2\frac{1}{4}$ cups	
sugar	$1\frac{3}{4}$ cups	
butter	$1\frac{1}{2}$ cups	
milk	$\frac{3}{4}$ cup	

13. How many $\frac{1}{3}$ cup servings are there in a 4 cup package of rice?

14. Frank has 2 bars of cheese to use to make individual small pizzas. If he wants to use $\frac{1}{5}$ of a bar of cheese for each small pizza, how many pizzas will he be able to make?