

# Homework #11

Due Friday, December 6

Name \_\_\_\_\_  
Buckley or Gietzen

Two numbers that are **opposites** are the same \_\_\_\_\_ from zero, but in opposite directions.

An example of two opposites would be \_\_\_\_ and \_\_\_\_.

The **absolute value** of a number is its distance from \_\_\_\_\_ on the number line. Absolute values are ALWAYS \_\_\_\_\_.

Example: The absolute value of -9 is \_\_\_\_\_. We can also write absolute value like this:  $|14| =$

1. What is the opposite of -8? \_\_\_\_\_
2. What is the opposite of  $\frac{3}{4}$ ? \_\_\_\_\_
3. What is the opposite of the opposite of -5? \_\_\_\_\_
4. Put a star above  $1\frac{1}{2}$  and its opposite on the number line below:



5. What is the absolute value of 4? \_\_\_\_\_
6.  $|2| =$  \_\_\_\_\_
7.  $|-33| =$  \_\_\_\_\_
8.  $|-12| + 25 =$  \_\_\_\_\_
9.  $45 \div |-9| =$  \_\_\_\_\_



12. Place a  $<$ ,  $>$ , or  $=$  between each pair of numbers.

a.  $-\frac{1}{2}$     1

b.  $-\frac{3}{4}$     -0.75

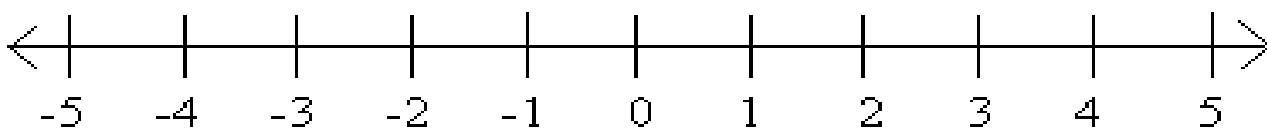
c.  $-\frac{5}{6}$      $-\frac{7}{2}$

d.  $\frac{1}{4}$      $\frac{5}{8}$

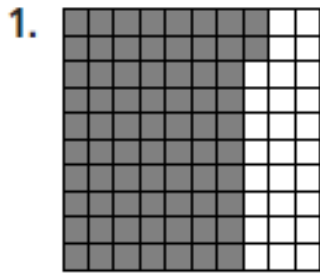
e.  $\frac{5}{10}$      $\frac{3}{6}$

f.  $-\frac{2}{3}$      $\frac{2}{3}$

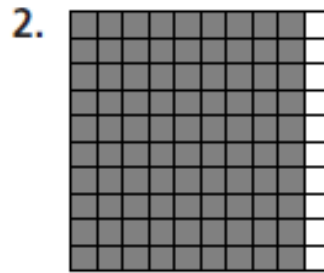
13. Place the following numbers on the number line below:  $-3.7$ ,  $2.1$ ,  $\frac{39}{10}$ ,  $-1.99$ ,  $-\frac{1}{8}$



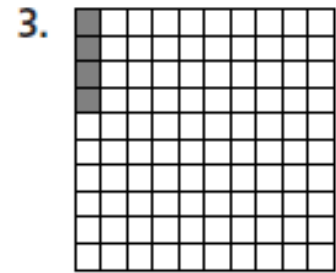
14. Each grid below represents one whole. Write the fraction and decimal modeled by the shaded area.



Fraction: \_\_\_\_\_ Decimal: \_\_\_\_\_



Fraction: \_\_\_\_\_ Decimal: \_\_\_\_\_



Fraction: \_\_\_\_\_ Decimal: \_\_\_\_\_

15. Write each decimal as a **fraction**.

a. 0.99

b. 0.622

c. 0.28

d. 0.8

e. 1.3

f. 0.35

16. Write each fraction as a **decimal**. (Hint: First, change the denominator to 10, 100 or 1000.)

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

b.  $\frac{12}{20}$

c.  $\frac{1}{4}$

d.  $\frac{44}{50}$