

Name: _____ Block: _____ Date: _____

Integer Operations Practice

I can add, subtract, multiply, and divide with rational numbers.

DIRECTIONS: Find these sums and differences. NO CALCULATOR! Show all your work!

1.) $3 + (-5) =$

2.) $(-5) + 9 =$

3.) $-8 + -2 =$

4.) $13 - (-12) =$

5.) $-3 - (-12) =$

6.) $-8 - 7 =$

DIRECTIONS: Find these products and quotients. NO CALCULATOR! Show all your work!

7.) $10 \times (-4) =$

8.) $(-5) \times (-20) =$

9.) $44 \div (-4) =$

10.) $(-12) \div (-6) =$

11.) $-50 \div 5 =$

12.) $-3 \times 6 =$

DIRECTIONS: Insert $=$ or \neq to make the statement true. NO CALCULATOR! Show all your work!

13.) $10 + (-42)$ $(-42) + 10$

14.) $14 - (-12)$ $(-12) - 14$

15.) $(-3) \times 3$ $3 \times (-3)$

16.) $(-12) \div (-24)$ $(-24) \div (-12)$

I can solve real-world and mathematical problems involving the four operations with rational numbers.

DIRECTIONS: Solve the word problems. **NO CALCULATOR!** Show all your work!

- 1.) Suppose the temperature is -14°F . What will the temperature be if it rises 32°F ?

- 2.) Jackson plays fullback on his high school football team. Sometimes he gains yardage (+5 means a 5-yard gain). Sometimes he loses yardage (-3 means a 3-yard loss). Determine how many yards Jackson's team has progressed in the game below.

GAME 1: +3 -9 +4 +16 -8

- 3.) A gas station is having a one-day special, they sell gasoline for \$15 below their usual cost. They sell 7,248 gallons of gasoline that day. How much money do they lose?

- 4.) If a submarine dives from a depth of 100 meters to a depth of 1,000 meters, what is the change in its depth?

- 5.) A squirrel climbed 18 inches up a tree, slipped back 4 inches, and then climbed up 20 inches more. How far up the tree has the squirrel made it?

- 6.) A skydiver falls at approximately 10 meters per second. How many meters will he fall in 40 seconds?

I can represent addition and subtraction of rational numbers on a number line diagram.

DIRECTIONS: Represent the following addition and subtraction problems on the number line provided.

1.) $(-6) + (-1) =$



2.) $-3 - (4) =$



3.) $6 + (-2) =$



4.) $-5 - (-5) =$



5.) $-3 + 8 =$

