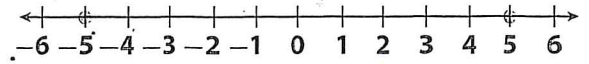


Opposites

Two numbers are **opposites** if, on a number line, they are the same distance from 0 but on different sides of 0. For example, 5 and -5 are opposites. 0 is its own opposite.



Remember, the set of whole numbers is 0, 1, 2, 3, 4, 5, 6, ...

Integers are the set of all whole numbers and their opposites.

On graph paper, use a ruler or straightedge to draw a number line. Label the number line with each integer from -10 to 10 . Fold your number line in half so that the crease goes through 0. Numbers that line up after folding the number line are opposites.

- A Use your number line to find the opposites of 7, -6 , 1, and 9. _____
- B How does your number line show that 0 is its own opposite?

- C What is the opposite of the opposite of 3? _____

Reflect

- 3. **Justify Reasoning** Explain how your number line shows that 8 and -8 are opposites.

- 4. **Multiple Representations** Explain how to use your number line to find the opposite of the opposite of -6 .

Opposites

Positive and Negative Numbers Practice

Part 1:

Decide if each situation would be represented by a positive number or negative number. If positive, put a "+" in the blank. If negative, put a "-" in the blank.

___ Gain

___ Growth

___ Drop

___ Withdraw

___ Loss

___ Ascend

___ Below

___ Up

___ Descend

___ Increase

___ Deposit

___ Rise

Part 2:

Draw a line from each word in Column A to its opposite in Column B.

Column A

Decrease

Gain

Below

Fall

Deposit

Column B

Loss

Withdrawal

Rise

Above

Increase

Calculations October 3, 2019 (SHOW ALL WORK!!!!)

NAME _____

PERIOD _____

1. 6.2D

The table below shows the amount of time four students practiced the trumpet one day.

Trumpet Practice Times

Name	Time (hours)
Cole	$1\frac{2}{3}$
Gus	$1\frac{1}{2}$
Ryan	$1\frac{1}{4}$
Jacob	$1\frac{7}{12}$

Which list shows the names of the students in order from least amount of practice to greatest amount of practice?

- A. Ryan, Jacob, Cole, Gus
- B. Cole, Jacob, Gus, Ryan
- C. Ryan, Gus, Jacob, Cole
- D. Gus, Ryan, Cole, Jacob

2. 6.2D

Which list of integers is in descending order?

- A. 24, 9, -33, -24, -11
- B. -11, -18, -33, 9, 24
- C. 24, 9, -11, -24, -33
- D. -33, 24, -18, -11, 9

3. 6.2D

On January 1. Rodney recorded the outside temperature at four different times. The temperature are shown in the table below.

Time	Temperature
6:00 A.M.	-8
11:00 A.M.	10
4:00 P.M.	0
9:00 P.M.	-2

Which list shows the shows the temperature in order from coldest to warmest?

- A. 0, -2, -8, 10
- B. -2, -8, 0, 10
- C. -8, -2, 0, 10
- D. -8, 0, -2, 10

4. 6.4G

Natalie saved \$45 to spend on a new outfit. She bought a sweater for \$15. Which shows the part of her savings Natalie spent on the sweater?

- A. $\frac{1}{2}$
- B. 30%
- C. 33.3%
- D. $\frac{3}{5}$

5. 6.4G

Mrs. Martin wrote the three equations on the board.

- Equation 1: $3\frac{4}{5} = 3.8$
- Equation 2: $24\% = \frac{6}{25}$
- Equation 3: $12.5 = 125\%$

Which of these equations is NOT true?

- A. Equation 1 only
- B. Equations 2 and 3 only
- C. Equation 3 only
- D. All three equations are true

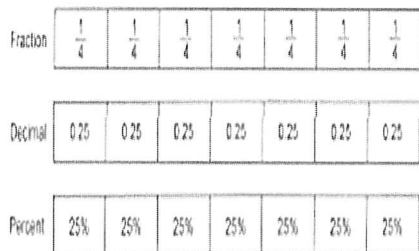
6. 6.4G

It rained 30.2% of the days in February. Which number is NOT equivalent to 30.2%

- A. $\frac{302}{100}$
- B. 0.302
- C. $\frac{302}{1000}$
- D. $\frac{1000}{30.2}$

7. 6.5C

Zack drew the strip diagram below.



According to Zack's diagram, which statement is true?

- A. $\frac{4}{4}$, 0.40, and 40% are equal
- B. $\frac{1}{4}$, 0.25, and 2.5% are all equal
- C. $\frac{6}{4}$, 1.50, and 150% are equal
- D. $\frac{5}{4}$, 1.00, and 100% are equal

8. 6.5C

Using a bag of fruit snacks, Summer records the information shown in the table below.

color	count	calculations
Red	4	$\frac{1}{4} = 25\%$
Yellow	3	$\frac{3}{16} = 18.75$
Orange	2	$\frac{1}{8} = 0.0125$
Green	7	$\frac{7}{16} = 43.75\%$

Which color fruit snack shows an incorrect calculation?

- A. Red
- B. Yellow
- C. Orange
- D. Green

9. 6.5C

The table below shows the part of the goal that was met by each trooper.

Member	Part of Goal
Talia	0.6
Vickie	$\frac{19}{25}$
Trinity	54%
Zana	$\frac{4}{5}$
Shameka	104%

What fraction of the goal did Shameka meet?

- A. $\frac{21}{25}$
- B. $\frac{31}{75}$
- C. $\frac{71}{26}$
- D. $\frac{26}{25}$

