**Do Now:** Find the quotient. division

1. 48/8 = 6
2. 108/6 = 18
3. 5(14) / 7 = 10
   70 ÷ 7
4. (-23 + 53) / 5 = 6
   30 ÷ 5

Oct 2-9:46 AM

## 2.5 Dividing Integers

7.NS.2.abc

positives and negatives and zero

Answer to division

- SWBAT divide integers to find the quotient.
- SWBAT understand meanings of operations; understand how operations are related; compute fluently.

Calculators: No

Oct 2-9:47 AM

## Dividing Integers

Same sign
- the quotient is positive

Example: 8 ÷ 2 = 4 -12 ÷ -6 = 2

Pos ÷ Pos = Pos Neg ÷ Neg = Pos

$\frac{Pos}{Pos} = Pos$ $\frac{Neg}{Neg} = Pos$

Sep 25-3:01 PM

Different sign
- the quotient is negative

Example: -18 ÷ 2 = -9 24 ÷ -4 = -6

Neg ÷ Pos = Neg Pos ÷ Neg = Neg

$\frac{Neg}{Pos} = Neg$ $\frac{Pos}{Neg} = Neg$

Sep 25-3:02 PM

## Find the quotient.

1.) $\frac{-40}{-8} = 5$

8 · 10 = 80
8 · 5 = 40

$\frac{Neg}{Neg} = Pos$

2.) $\frac{-14}{2} = -7$

$\frac{Neg}{Pos} = Neg$

Oct 2-9:49 AM

3.) $\frac{36}{-9} = -4$

$\frac{Pos}{Neg} = Neg$

4.) $\frac{0}{7} = 0$ Zero Pos

but.... $\frac{7}{0} =$ undefined

$\frac{0}{\#} = 0$ $\frac{\#}{0} =$ undefined

$\frac{0}{7}$ $\frac{7}{0}$ $0\overline{)7}$ $-0$ $7$

Sep 25-3:04 PM

Find the quotient.

1.) $\frac{-33}{11} = -3$

2.) $\frac{-25}{5} = -5$

3.) $\frac{0}{-4} = 0$

4.) $\frac{72}{-9} = -8$

Oct 2-9:49 AM

Evaluate the expression when a = -24, b = 8, and c = -4

a.) $\frac{a}{b}$ $\frac{-24}{8} = -3$

Neg / Pos = Neg

b.) $\frac{ab}{c}$ $\frac{a \cdot b}{c}$ $\frac{-24(8)}{-4} = \frac{-192}{-4} = 48$

Neg · Pos = Neg, Neg = Pos

$4\overline{)192}$ → 48

Oct 2-9:55 AM

Evaluate the expression when d = -16, e = 8 and f = -2

a.) $\frac{d}{e}$

b.) $\frac{ef}{d}$

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The mean of a data set is known as the average.

$$\text{mean} = \frac{\text{sum of the values}}{\text{number of values}}$$

add all of the values

divide

total amount

Sep 25-3:10 PM

Fidel played five rounds of a card game. His scores were -50, 41, -52, 32, and 22. Find the mean of his scores.

$$\text{mean} = \frac{-50 + 41 + (-52) + 32 + 22}{5}$$

$-102 + 95$

$$= \frac{-102+95}{5} = \frac{-7}{5}$$

Neg / Pos = Neg

$5\overline{)7.0}$ → 1.4

$= -1.4$

Sep 25-3:13 PM

"If you cannot catch a fish, do not blame the sea."

**Graded Classwork**

- Working individually, complete Worksheet 2.5

**#2-20 Evens Only**

**#1-19 Odds Only**

Sep 25-3:01 PM

**Exit Pass 2.5**

Complete the following with positive or negative:

Postive / Positive = Pos

Postive / Negative = Neg

Negative / Positive = Neg

Negative / Negative = Pos

Sep 25-3:00 PM

## Reflection of Today's Lesson

**2.5 Dividing Integers**
7.NS.2.abc
SWBAT divide integers to find the ~~product~~ quotient.
SWBAT understand numbers and understand meanings of operations.

Oct 1-9:50 AM

## Homework

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