

9-20-17

Aim: SWBAT multiply and divide integers.

HW: Textbook Pg. 75 # 3 - 22 & Pg. 79 # 2 - 13

Test next week

Do Now: Quick Quiz (need a pencil)

Write "28 divided by 7" in three different styles.

$$7 \overline{)28} \quad 28 \div 7 \quad \frac{28}{7}$$

Write "5 divided by 3" in three different styles.

$$3 \overline{)5} \quad 5 \div 3 \quad \frac{5}{3}$$

Name _____

Date _____

Translating Division

Period _____

Match the left and right column division statements to their equivalent division statement in the middle column.

$\frac{1}{5}$	■	■	$3 \overline{)4}$	■	■	$\frac{3}{4}$
$0 \overline{)7}$	■	■	$7 \overline{)0}$	■	■	$4 \div 3$
$3 \div 4$	■	■	$1 \div 5$	■	■	$7 \div 0$
$\frac{4}{3}$	■	■	$5 \div 1$	■	■	$5 \overline{)1}$
$0 \div 7$	■	■	$\frac{7}{0}$	■	■	$\frac{5}{1}$
$1 \overline{)5}$	■	■	$4 \overline{)3}$	■	■	$\frac{0}{7}$

Write each expression as a fraction.

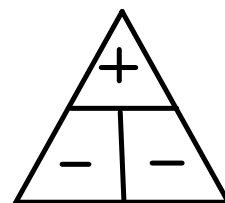
$13 \div 5$	$\frac{13}{5}$	$7 \div 9$	$\frac{7}{9}$	$2 \div 3$	$\frac{2}{3}$
$8 \overline{)11}$	$\frac{11}{8}$	$10 \overline{)21}$	$\frac{21}{10}$	$6 \overline{)5}$	$\frac{5}{6}$

State if the answer is zero or undefined.

$\frac{8}{0}$	undefined	$\frac{0}{5}$	zero	$\frac{3}{0}$	undefined	$\frac{0}{12}$	zero
$11 \overline{)0}$	$\frac{0}{11}$	zero	$0 \overline{)25}$	$\frac{25}{0}$	undefined	$0 \overline{)45}$	undefined
$0 \overline{)45}$	$\frac{45}{0}$	undefined	$18 \overline{)0}$	$\frac{0}{18}$	zero		

Multiplying and Dividing Two Integers

- Same signs: answer is positive
- Different signs: answer is negative



Evaluate.

1) $(-10)(-5)$
50

2) $(12)(4)$
48

3) $(-4)(2)$
-8

4) $7(-9)$
-63

5) $(100)(-7)$
-700

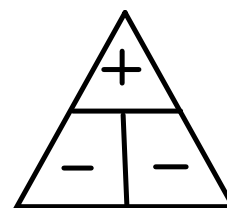
6) $(-6)(13)$
-78

7) $-9(-11)$
99

8) $(-15)(7)$
-105

Multiplying and Dividing Two Integers

- Same signs: answer is positive
- Different signs: answer is negative



Evaluate.

9) $\frac{-144}{12}$

 -12

10) $62 \div 2$

 31

11) $\frac{-150}{-30}$

 5

12) $-90 \div -15$

 6

13) $-51 \div 3$

 -17

14) $\frac{-9}{-3}$

 3

15) $-120 \div 6$

 -20

16) $\frac{80}{-5}$

 -16