

Today I am going to participate in class!

For today I will need:

- Pencil
- Vocabulary Sheet
- Homework
- Text Book



WE  MATH



7.NS.2b

I can use long division with positive and negative numbers.

Warm-Up

In your graph paper, answer the following questions:

Use what you know about division to find the answers to the following number sentences. Express your answers as BOTH a fraction and a decimal.

Remember, a fraction line also represents division.

$$3 \div -6 = \quad \frac{-4}{16} =$$

$$\frac{-\frac{1}{2}}{-\frac{2}{3}} =$$

As a team, answer the questions on page 63.
Record the answers in your graph paper.

H Recall that some fractions have decimals that terminate. For example, $\frac{3}{4} = 0.75$. Other fractions have decimals that repeat. For example, $\frac{1}{3} = 0.333 \dots = 0.\overline{3}$. The 3 repeats.

1. State whether each fraction will *terminate* or *repeat*. Then write each fraction as a decimal.

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

b. $\frac{3}{8}$

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

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1. State whether each fraction will *terminate* or *repeat*. Then write each fraction as a decimal.

d. $\frac{35}{10}$

e. $\frac{8}{-9}$

f. $\frac{-3}{-11}$

terminating decimal

A decimal that ends and doesn't keep going.

ex:

some terminating decimals

$$\frac{3}{4} = 0.75$$

$$\frac{25}{16} = 1.5625$$

repeating decimal

A decimal that will eventually repeat.

ex:

some repeating decimals

$$\frac{1}{3} = 0.33333 \dots = 0.\bar{3}$$

$$\frac{1}{11} = 0.090909 \dots = 0.\overline{09}$$

Class Work Answers:

- H. 1. a. 0.4 (terminating)
b. 0.375 (terminating)
c. $-0.\overline{83}$ (repeating)
d. 3.5 (terminating)
e. $-0.\overline{8}$ (repeating)
f. $0.\overline{27}$ (repeating)

Note on Notation You know that a rational number is any number that you can write in the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$. When a rational number is negative, the negative sign can be associated with the numerator, the denominator, or the entire fraction. For positive integers a and b ,

$$\frac{-a}{b} = \frac{a}{-b} = -\frac{a}{b}$$

For example, suppose $a = 6$ and $b = 2$.

$$\frac{-6}{2} = \frac{6}{-2} = -\frac{6}{2} = -3$$

Homework:

p.68-70 #14 and #32-35