

6th Grade
Oct 30, 2020

Please get out your
THQ to turn in.

Today we will:
-review with a
worksheet. We will
go over the
answers near the
end of class.

HOMEWORK:

ALEKS-60 minutes and
5 topics due by 11:59pm
Nov. 2



$$\textcircled{1} \quad |-36| = \underline{36}$$

$$\textcircled{2} \quad |45| = \underline{45}$$

$$\textcircled{3} \quad |-2| + |6| = \underline{8}$$

$$\textcircled{4} \quad \begin{array}{l} 2+6 \\ 5+7 \end{array} \quad |-5| + |4+3| = \underline{12}$$

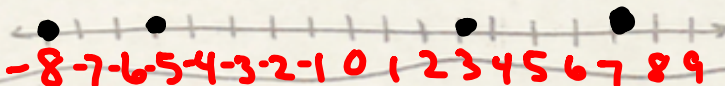
Write the integer for each phrase:

$$\textcircled{5} \quad 3 \text{ feet below sea level: } \underline{-3}$$

$$\textcircled{6} \quad \text{I owe my Mom } \$10: \underline{-10}$$

$$\textcircled{7} \quad \text{A bird flies 25 ft. above the ground: } \underline{25}$$

$\textcircled{8}$ Graph $-5, 7, 3, -8$ on a number line.



$$\textcircled{9} \quad \text{What is the opposite of } 82? \underline{-82}$$

$\textcircled{10}$ Absolute value tells the distance from zero.

Reteach

Terminating and Repeating Decimals

To write a fraction as a decimal, divide the numerator by the denominator. Division ends when the remainder is zero.

You can use bar notation to indicate that a number pattern repeats indefinitely. A bar is written over the digits that repeat.

Example 1 Write $\frac{3}{20}$ as a decimal.

$$\begin{array}{r} 0.15 \\ 20 \overline{)3.00} \\ \underline{20} \\ 100 \\ \underline{100} \\ 0 \end{array}$$

Divide 3 by 20.

The remainder is 0.

So, $\frac{3}{20} = 0.15$.

Example 2 Write $\frac{5}{9}$ as a decimal.

$$\begin{array}{r} 0.555\dots \\ 9 \overline{)5.000} \\ \underline{45} \\ 50 \\ \underline{45} \\ 50 \\ \underline{45} \\ 5 \end{array}$$

The remainder after each step is 5.

You can use bar notation $0.\overline{5}$ to indicate that 5 repeats forever. So, $\frac{5}{9} = 0.\overline{5}$.

Example 3 Write -0.32 as a fraction in simplest form.

$$-0.32 = -\frac{32}{100}$$

The 2 is in the hundredths place.

$$= -\frac{8}{25}$$

Simplify.

IN
inside-numerator

Exercises

Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

1. $\frac{8}{10}$

0.8

2. $-\frac{3}{5} \times \frac{2}{2} = -\frac{6}{10}$

-0.6

3. $\frac{7}{11}$

0.63
7.00

4. $4\frac{7}{8}$

4.875

$$\begin{array}{r} .875 \\ 8 \overline{)7.000} \\ \underline{64} \\ 60 \\ \underline{56} \\ 40 \end{array}$$

5. $-\frac{13}{15}$

-0.86

$$\begin{array}{r} .86 \\ 15 \overline{)13.00} \\ \underline{120} \\ 100 \end{array}$$

6. $\frac{347}{90}$

3.47

$$\begin{array}{r} .47 \\ 99 \overline{)97.00} \\ \underline{99} \\ 700 \\ \underline{693} \\ 70 \end{array}$$

Write each decimal as a fraction in simplest form.

7. -0.14

$-\frac{14}{100} \div \frac{2}{2} = -\frac{7}{50}$

8. 0.3

$\frac{3}{10}$

9. 0.94

$\frac{94}{100} \div \frac{2}{2} = \frac{47}{50}$

$$\begin{array}{r} .47 \\ 99 \overline{)97.00} \\ \underline{99} \\ 700 \\ \underline{693} \\ 70 \end{array}$$



5-4

NAME Key DATE _____ PERIOD _____

Reteach

Terminating and Repeating Decimals

To write a fraction as a decimal, divide the numerator by the denominator. Division ends when the remainder is zero.

You can use bar notation to indicate that a number pattern repeats indefinitely. A bar is written over the digits that repeat.

Example 1 Write $\frac{3}{20}$ as a decimal.

$$\begin{array}{r} 0.15 \\ 20 \overline{)3.00} \\ \underline{20} \\ 100 \\ \underline{100} \\ 0 \end{array}$$

Divide 3 by 20.

The remainder is 0.

So, $\frac{3}{20} = 0.15$.

Example 2 Write $\frac{5}{9}$ as a decimal.

$$\begin{array}{r} 0.555\dots \\ 9 \overline{)5.000} \\ \underline{45} \\ 50 \\ \underline{45} \\ 50 \\ \underline{45} \\ 5 \end{array}$$

The remainder after each step is 5.

You can use bar notation $0.\overline{5}$ to indicate that 5 repeats forever. So, $\frac{5}{9} = 0.\overline{5}$.

Example 3 Write -0.32 as a fraction in simplest form.

$$\begin{aligned} -0.32 &= -\frac{32}{100} && \text{The 2 is in the hundredths place.} \\ &= -\frac{8}{25} && \text{Simplify.} \end{aligned}$$

Exercises

Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

1. $\frac{8}{10} = 0.8$
↑ tenths

2. $-\frac{3}{5} = -0.6$ (carry the negative over)

3. $\frac{7}{11} = 0.\overline{63}$

4. $4\frac{7}{8} = 4.875$
carry whole number over then deal with the fraction

5. $-\frac{13}{15} = -0.\overline{86}$

6. $3\frac{47}{99} = 3.\overline{47}$

Write each decimal as a fraction in simplest form.

7. $-0.14 = -\frac{14}{100} = -\frac{7}{50}$
↑ hundredths place

8. $0.3 = \frac{3}{10}$
↑ tenths place

9. $0.94 = \frac{94}{100} = \frac{47}{50}$
↑ hundredths place

Both digits repeat because there are 2 steps to repeat the remainder.

$$\begin{array}{r} 0.\overline{63} \\ 11 \overline{)6.300} \\ \underline{66} \\ 40 \\ \underline{33} \\ 70 \\ \underline{66} \\ 40 \\ \underline{33} \\ 70 \end{array}$$

$$\begin{array}{r} 0.\overline{47} \\ 99 \overline{)4.700} \\ \underline{396} \\ 740 \\ \underline{693} \\ 470 \\ \underline{423} \\ 470 \end{array}$$

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Review for Quiz

Lessons 1-3 Practice for Quiz:

① $|-36| = \underline{36}$ change to positive, Absolute value is always positive!

② $|45| = \underline{45}$ keep positive!

③ $|-2| + |6| = \underline{2+6=8}$

④ $|-5| + |4+3| = \underline{5+7=12}$

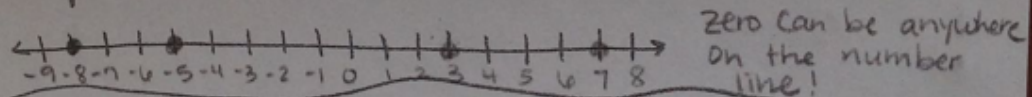
Write the integer for each phrase:

⑤ 3 feet below sea level: $\underline{-3}$
negative

⑥ I owe my Mom \$10: $\underline{-10}$
negative

⑦ A bird flies 25 ft above the ground: $\underline{25}$
positive

⑧ Graph -5, 7, 3, -8 on a number line.



⑨ What is the opposite of 82? $\underline{-82}$
opposites can be negative!

⑩ Absolute value tells the distance from zero.