

Answers to the Pre-Assessment

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|------|---------------------|--------------|
| 1. C | 9. A | 5. 265 |
| 2. B | 10. C | 6. $x - 6$ |
| 3. A | 11. C | 7. $8x + 3$ |
| 4. B | Short Answer | Essay |
| 5. A | 1. $5 - 15v$ | 1. $x + 5$ |
| 6. C | 2. $5r + 17$ | 2. $2t + 66$ |
| 7. A | 3. 57 | |
| 8. D | 4. 42 | |

Do Now: Write the fraction or mixed number as a decimal.

1. $3 \frac{1}{8}$

$$3 \frac{1}{8} = \frac{25}{8}$$

$$8 \overline{)25} \quad 3.125$$

2. $-\frac{9}{11}$

$$-0.\overline{81}$$

5.5 Fractions and Decimals

7.NS
7.EE

- SWBAT write fractions as decimals and decimals as fractions.
- SWBAT understand numbers; compute fluently.

- Calculators: No

Writing Terminating Decimals as Fractions

To write a terminating decimal as a fraction, use the place value of the decimal's last digit to determine the denominator.

a. 0.4

↑
tenths

$$\frac{4}{10} = \frac{2}{5}$$

Simplify
(if possible)

$$0.4 = \frac{2}{5}$$

b. $-9.905 \leftarrow$ Mixed Number

Don't lose the negative

↑ thousandths

$$-9 \frac{905}{1000} \div 5$$

Simplify?

$$-9 \frac{181}{200}$$

Write the decimal as a fraction or mixed number.

a.) -1.97

↑ hundredths

$$-1 \frac{97}{100}$$

b.) 0.0654

↑ ten-thousandths

$$\frac{654}{10,000} \div 2 = \frac{327}{5,000}$$

Write Repeating Decimals as a Fraction

To write a repeating decimal as a fraction, form two equivalent equations by multiplying a power of 10. Then subtract the equations.

a. $0.\overline{48} = 0.48484848... \quad 48.\overline{48}$

$$100x = 48.\overline{48}$$

$$- 1x = 0.\overline{48}$$

$$99x = 48$$

$$x = \frac{48}{99} \div 3 \text{ Simplify (if possible)}$$

$$x = \frac{16}{33}$$

$$0.\overline{48} = \frac{16}{33}$$

Write the decimal as a fraction or mixed number.

$0.\overline{36}$

↑ hundredths

$100x = 36.\overline{36}$

$$- x = 0.\overline{36}$$

$$99x = 36.0$$

$$x = \frac{36}{99} \div 3 \text{ Simplify}$$

$$= \frac{12}{33} \div 3 = \frac{4}{11}$$

$$0.\overline{36} = \frac{4}{11}$$

Order the rational numbers from least to greatest.

$-5/4$ -0.2 4.31 -3 $5/2$ $-13/3$

Exit Pass 5.5

Describe and correct the error in writing the repeating decimal $14.1232323\ldots$ using a bar.

$$14.\underline{1232323}\ldots = 14.\overline{123}$$

$$14.\overline{123}$$



"Don't blame the sea if you cannot catch a fish."

Working individually, with a partner, or small group, complete the workbook assignment.

Workbook

pg. 69-70 #1-10, 12, 20-27



Reflection of Today's Lesson

5.5 Fractions and Decimals

7.NS
7.EE

- SWBAT write fractions as decimals and decimals as fractions
- SWBAT understand numbers; compute fluently.

• Calculators: No

Homework

Finish the
workbook
assignment

