

Fractions and Decimals

6th Grade Mathematics

Mr. Wong

Ex. 1: Write each fraction or mixed number as a decimal.

$$5 \frac{3}{8}$$

5.375

Reduce, if possible.

Divide 8 by 3 to make a decimal.

$$\begin{array}{r} 0.375 \\ 8 \overline{) 3.000} \\ \underline{24} \\ 60 \\ \underline{56} \\ 40 \end{array}$$

Ex. 2: Write each fraction or mixed number as a decimal.

$$\frac{7}{11}$$

$$0.\overline{63}$$

Reduce, if possible.

Divide 11 by 7 to make a decimal.

0.6363

$$\begin{array}{r} 11 \overline{) 7.000} \\ \underline{66} \\ 40 \\ \underline{33} \\ 70 \end{array}$$



Ex. 3: Order from least to greatest.

$$1.2, \frac{3}{5}, -0.5, \frac{9}{10}$$

Convert fractions to decimals.

$$0.6 = \frac{3}{5}, 0.9 = \frac{9}{10}$$

Put in order from least to greatest.

$$-0.5, \frac{3}{5}, \frac{9}{10}, 1.2$$



Ex. 4: Order from least to greatest.

$$-0.75, \frac{-1}{4}, -0.625, \frac{-1}{8}$$

Convert fractions to decimals.

$$-0.25 = \frac{-1}{4}, -0.125 = \frac{-1}{8}$$

Put in order from least to greatest.

$$-0.75, -0.625, \frac{-1}{4}, \frac{-1}{8}$$

Ex. 5: Write as a fraction or a mixed number.

0.35

How would you read this decimal?

Thirty-five hundredths.

Write that as a fraction.

Factor tree 35 and 100.

What can cancel out?

$$\frac{35}{100} = \frac{\cancel{5} \cdot 7}{2 \cdot 2 \cdot \cancel{5} \cdot 5} = \frac{7}{20}$$

Ex. 6: Write as a fraction or a mixed number.

-6.8

How would you read this decimal?

Negative six and eight tenths.

Write that as a fraction.

Factor tree 8 and 10.

What can we cancel out?

$$-6 \frac{8}{10} = -6 \frac{\cancel{2} \cdot 2 \cdot 2}{\cancel{2} \cdot 5} = -6 \frac{4}{5}$$