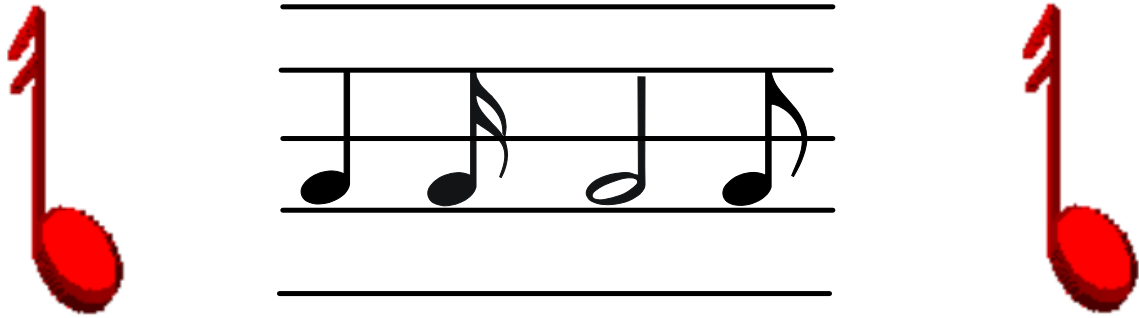


Music notes are based on fractions of a whole note.

Fractions of a Whole Note



$\frac{1}{4}$ $\frac{1}{16}$ $\frac{1}{2}$ $\frac{1}{8}$

Order the fractions shown from greatest from least.

$$\frac{1}{4} \stackrel{\times 4}{=} \frac{4}{16} \qquad \frac{1}{2} \stackrel{\times 8}{=} \frac{8}{16} \qquad \frac{1}{8} \stackrel{\times 2}{=} \frac{2}{16}$$

$$\frac{8}{16}, \frac{4}{16}, \frac{2}{16}, \frac{1}{16}$$

$$\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}$$

answer

12/1/09



Objective:

TSWBAT write decimals
as fractions and fractions
as decimals.

Writing Decimals as Fractions

Write **0.225** as a fraction in simplest form.

1. Use the place value of the number to the right to write your fraction.

$$\frac{225}{1000}$$

2. Simplify by using the GCF.

$$\frac{225 \div 25}{1000 \div 25} = \frac{9}{40}$$

Write 2.06 as a mixed number in simplest form.

$$2.06 \quad 2 \frac{6 \div 2}{100 \div 2} = 2 \frac{3}{50}$$

Writing Fractions as Decimals

Write $\frac{5}{8}$ as a decimal.

1. Divide to find the decimal.

$$\begin{array}{r} 8 \overline{) 5.000} \\ \underline{48} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

0.625

Write $\frac{9}{20}$ as a decimal.

$$\begin{array}{r} 20 \overline{) 9.00} \\ \underline{-80} \\ 100 \end{array}$$

0.45

Write $2\frac{3}{4}$ as a decimal.

$$\begin{array}{r} 4 \overline{) 3.00} \\ \underline{-28} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

Repeating Decimals

Write $4/11$ as a decimal.

$$\begin{array}{r} \overline{) 4.00000} \\ \underline{-33} \\ 70 \\ \underline{-66} \\ 40 \\ \underline{-33} \\ 70 \\ \underline{-66} \\ 4 \end{array}$$

$\overline{0.36}$

Practice

Write each decimal as a fraction.

1) 0.6

$$\frac{6}{10} \stackrel{\div 2}{=} \frac{3}{5}$$

2) 5.08

$$5 \frac{8}{100} \stackrel{\div 4}{=} 5 \frac{2}{25}$$

3) 0.35

$$\frac{35}{100} \stackrel{\div 5}{=} \frac{7}{20}$$

Write each fraction as a decimal.

4) $\frac{2}{3}$

$$\begin{array}{r} .66 \\ 3 \overline{) 2.00} \\ \underline{-18} \\ 20 \\ \underline{-18} \\ 2 \end{array} \quad \textcircled{0.\overline{6}}$$

5) $\frac{1}{6}$

$$\begin{array}{r} .166 \\ 6 \overline{) 1.000} \\ \underline{-6} \\ 40 \\ \underline{-36} \\ 40 \\ \underline{-36} \\ 4 \end{array} \quad \textcircled{0.\overline{16}}$$

6) $\frac{5}{9}$

$$\begin{array}{r} .555 \\ 9 \overline{) 5.000} \\ \underline{-45} \\ 50 \\ \underline{-45} \\ 50 \\ \underline{-45} \\ 5 \end{array} \quad \textcircled{0.\overline{5}}$$

Homework

Practice 3-8

