

Name: _____

Answers

Date: _____

Homework – Converting Decimals, Fractions and Mixed NumbersDirections: Convert each fraction or Mixed Number into a decimal

1) $2\frac{3}{5} = \boxed{2.6}$

$$\begin{array}{r} \downarrow \\ 5 \overline{) 3.0} \\ \underline{-30} \\ 0 \end{array}$$

2) $\frac{5}{8} = \boxed{0.625}$

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

3) $\frac{8}{33} = \boxed{.24}$

$$\begin{array}{r} \downarrow \\ 33 \overline{) 8.0000} \\ \underline{-66} \\ 140 \\ \underline{-132} \\ 80 \\ \underline{-66} \\ 140 \end{array}$$

4) $6\frac{15}{200}$

$= 6\frac{3}{40} = \boxed{6.075}$

$$\begin{array}{r} \downarrow \\ 40 \overline{) 3.000} \\ \underline{-0} \\ 300 \\ \underline{-280} \\ 200 \\ \underline{-200} \\ 0 \end{array}$$

5) $4\frac{30}{125} = 4\frac{6}{25} = \boxed{4.24}$

$$\begin{array}{r} \downarrow \\ 25 \overline{) 6.00} \\ \underline{-50} \\ 100 \\ \underline{-100} \\ 0 \end{array}$$

6) $3\frac{3}{18} = 3\frac{1}{6} = \boxed{3.1\overline{6}}$

$$\begin{array}{r} \downarrow \\ 6 \overline{) 1.000} \\ \underline{-6} \\ 40 \\ \underline{-36} \\ 40 \\ \underline{-36} \\ 4 \end{array}$$

Directions: Convert each decimal into a fraction or mixed number in simplest form.

7) 2.2

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

$$= \boxed{2 \frac{1}{5}}$$

8) 5.08

$$= 5 \frac{8}{100}$$

$$= \boxed{5 \frac{2}{25}}$$

9) $0.\overline{6}$

$$= \frac{6}{9} = \boxed{\frac{2}{3}}$$

10) $15.\overline{09}$

$$= 15 \frac{9}{99}$$

$$= \boxed{15 \frac{1}{11}}$$

11) 3.125

$$= 3 \frac{125}{1000}$$

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

12) 6.075

$$= 6 \frac{75}{1000}$$

$$= \boxed{6 \frac{3}{40}}$$