

HW: 1-2 MathXL for School Additional Practice
(on Google Classroom)

Warm up

Evaluate. Express your answer as a decimal.

$$98 \div 8$$

The image shows a handwritten long division problem for $98 \div 8$. The divisor 8 is written in blue on the left. The dividend 98 is written in blue above a horizontal line. Two zeros are added to the right of the decimal point, making the dividend 98.00. The quotient 12.25 is written in red above the line. A red oval circles the quotient. Red arrows point from the quotient digits to the corresponding digits in the dividend. The subtraction steps are shown in red: $98 - 80 = 18$, $18 - 16 = 2$, $20 - 16 = 4$, and $40 - 40 = 0$.

HW Solutions

3

$$\frac{5}{8} \cdot \frac{1}{2} = \frac{5}{16} \text{ of the pizza}$$

⑤

$$14\frac{5}{8} - 3\frac{3}{16}$$

$$\frac{117}{8} - \frac{51}{16}$$

$$\frac{234}{16} - \frac{51}{16} = \frac{183}{16} =$$

$$\begin{array}{r} 11 \\ 16 \overline{) 183} \\ \underline{-16} \\ 23 \\ \underline{-16} \\ 7 \end{array}$$

$$\begin{array}{r} 234 \\ - 51 \\ \hline 183 \end{array}$$

$$11\frac{7}{16} \text{ in}$$

$$2\frac{1}{2} + 4\frac{1}{10}$$

$$\frac{5}{2} + \frac{41}{10}$$

$$\frac{25}{10} + \frac{41}{10} = \frac{66}{10} = 6\frac{6}{10} = \left(6\frac{3}{5} \text{ mi}\right)$$

Convert the following decimals into fractions.

$$1) 0.6 = \frac{6}{10} = \frac{3}{5}$$

$$2) 0.43 = \frac{43}{100}$$

$$3) 2.51 = 2 \frac{51}{100} \quad \frac{251}{100}$$

$$4) -5.773 = -5 \frac{773}{1000}$$

How do you convert a fraction into a decimal?

$$4 \div 5$$

$$\begin{array}{r} 0.8 \\ 5 \overline{)4.0} \\ \underline{-40} \\ 0 \end{array}$$

$$0.8$$

$$\frac{4}{5}$$

$$2 \overline{) 3}$$

$$3 \overline{) 2} \quad 0.\overline{6}$$

$$0.\overline{6\overline{6}}$$

$$\begin{array}{r}
 0.666 \\
 3 \overline{) 2.000} \\
 \underline{-18} \\
 20 \\
 \underline{-18} \\
 20 \\
 \underline{-18} \\
 2
 \end{array}$$

$$0.666\overline{6}$$

$$3 \overline{) 5} \\ 8$$

$$3.625$$

$$\begin{array}{r}
 0.625 \\
 8 \overline{) 5.000} \\
 \underline{-48} \\
 20 \\
 \underline{-16} \\
 40 \\
 \underline{-40} \\
 0
 \end{array}$$

0.234234234...

0.234 $\overline{234}$

Convert the following fractions into decimals.

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

2) $\frac{6}{32}$

3) $4\frac{7}{8}$

4) $-1\frac{4}{9}$

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

$$0.1\overline{66}$$

$$0.1\overline{6}$$

$$\begin{array}{r} 0.166 \\ 6 \overline{) 1.000} \\ \underline{- 6} \\ 40 \\ \underline{- 34} \\ 40 \\ \underline{- 36} \\ 4 \end{array}$$

$$2) \frac{6}{32}$$

0.1875

$$\begin{array}{r} 0.1875 \\ 32 \overline{) 6.0000} \\ \underline{- 32} \\ 280 \\ \underline{- 256} \\ 240 \\ \underline{- 224} \\ 160 \\ \underline{- 160} \\ 0 \end{array}$$

$$\begin{array}{r} 1 \\ 32 \\ \times 8 \\ \hline 256 \end{array}$$

$$3) 4\frac{7}{8}$$

$$4.875$$

$$\begin{array}{r} 0.875 \\ 8 \overline{) 7.000} \\ \underline{-64} \downarrow \\ 60 \\ \underline{-56} \downarrow \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

$$4) -1\frac{4}{9}$$

$$\textcircled{-1.4\bar{4}}$$

$$\begin{array}{r} 0.44 \\ \hline 9 \overline{) 4.00} \\ \underline{-36} \\ 40 \\ \underline{-36} \\ 4 \end{array}$$

How do you multiply and divide decimals?

$$\begin{array}{r} 7.26 \times 3.1 \\ \hline 726 \\ 21780 \\ \hline 22.506 \end{array}$$

