

Hw
21.9.21

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10. Convert the following common fraction into decimal fractions:

$$a. \frac{3}{4} = \frac{3 \times 25}{4 \times 25} = \frac{75}{100} = 0.75$$

$$b. \frac{7}{8} = \frac{7 \times 125}{8 \times 125} = \frac{875}{1000} = 0.875$$

$$c. 15\frac{1}{4} = \frac{61}{4} = \frac{61 \times 25}{4 \times 25} = \frac{1525}{100} = 15.25$$

$$d. 20\frac{3}{5} = \frac{103}{5} = \frac{103 \times 2}{5 \times 2} = \frac{206}{10} = 20.6$$

e. ~~$\frac{7}{3}$~~

$$f. 8\frac{21}{40} = \frac{341}{40} = \frac{341 \times 25}{40 \times 25} = \frac{8525}{1000} = 8.525$$

$$\text{Qe. } 17 \frac{3}{16} = \frac{275}{16}$$

$$\begin{array}{r} 17.1875 \\ 16 \overline{) 275.0000} \\ \underline{115} \\ 112 \\ \underline{30} \\ 16 \\ \underline{140} \\ 128 \\ \underline{120} \\ 12 \\ \underline{12} \\ 80 \\ \underline{80} \\ 0 \end{array}$$

$$17 \frac{3}{16} = 17.1875$$

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$$g. \quad \frac{585}{64} = \frac{3717}{64} \quad 58.07$$

$$\begin{array}{r}
 64 \overline{) 3717.000000} \\
 \underline{320} \\
 517 \\
 \underline{512} \checkmark \\
 50 \\
 \underline{0} \checkmark \\
 500 \\
 \underline{448} \checkmark \\
 520 \\
 \underline{512} \checkmark \\
 80 \\
 \underline{64} \checkmark \\
 160 \\
 \underline{128} \checkmark \\
 320 \\
 \underline{320} \\
 0
 \end{array}$$

$$\frac{585}{64} = 58.078125$$

11. Convert the decimal fractions into common fraction.

$$a. 0.02 = \frac{2}{100} = \frac{1}{50}$$

$$b. 0.175 = \frac{175}{1000} = \frac{7}{40}$$

$$c. 7.60 = 7 + \frac{60}{100} = 7\frac{3}{5}$$

$$d. 7.625 = 7 + \frac{625}{1000} = 7 + \frac{25}{40} = 7\frac{5}{8}$$

$$e. 6.125 = 6 + \frac{125}{1000} = 6\frac{1}{8}$$

$$f. 3.75 = 3 + \frac{75}{100} = 3\frac{3}{4}$$

$$g. 9.55 = 9 + \frac{55}{100} = 9\frac{11}{20}$$