Name:

Date:

Converting Decimals to Fractions or Mixed Numbers

Convert the following decimals to a fraction.

1) $0.15 =$

2) $0.37 =$

3) $2.35 =$

4) $0.96 =$

5) $1.05 =$

6) $19.3 =$

7) $0.02 =$

8) $0.3 =$

Convert to decimals.

9) $\frac{27}{8} =$

10) $22\frac{3}{10} =$

11) $\frac{12}{5} =$

12) $\frac{17}{12} =$

13) $24\frac{16}{100} =$

14) $\frac{6}{15} =$

15) $\frac{6}{20} =$

16) $38\frac{7}{10} =$

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Answers

Convert the following decimals to a fraction.

1) $0.15 = \frac{0.15}{1} = \frac{0.15\times100}{1\times100} = \frac{15}{100} = \frac{5\times3}{5\times20} = \frac{3}{20}$

2) $0.37 = \frac{0.37}{1} = \frac{0.37\times100}{1\times100} = \frac{37}{100}$

3) $2.35 = \frac{2.35}{1} = \frac{2.53\times100}{100} = \frac{235}{100} = \frac{5\times47}{5\times20} = \frac{47}{20} = 2\frac{7}{20}$

4) $0.96 = \frac{0.96}{1} = \frac{0.96\times100}{1\times100} = \frac{96}{100} = \frac{4\times24}{4\times25} = \frac{24}{25}$

5) $1.05 = \frac{1.05}{1} = \frac{1.05\times100}{1\times100} = \frac{105}{100} = \frac{5\times21}{5\times20} = \frac{21}{20} = 1\frac{1}{20}$

6) $19.3 = \frac{19.3}{1} = \frac{19.3\times10}{1\times10} = \frac{193}{10} = 19\frac{3}{10}$

7) $0.02 = \frac{0.02}{1} = \frac{0.02\times100}{1\times100} = \frac{2}{100} = \frac{1}{50}$

8) $0.3 = \frac{0.3}{1} = \frac{0.3\times10}{1\times10} = \frac{3}{10}$

Convert to decimals.

9) $\frac{27}{8} = 27 \div 8 = 3.375$

10) $22\frac{3}{10} = 22 + (3 \div 10) = 22 + 0.03 = 22.3$

11) $\frac{12}{5} = 12 \div 5 = 2.4$

12) $\frac{17}{12} = 17 \div 12 = 1.416\ldots$

13) $24\frac{16}{100} = 24 + (16 \div 100) = 24 + 0.16 = 24.16$

14) $\frac{6}{15} = 6 \div 15 = 0.4$

15) $\frac{6}{20} = 6 \div 20 = 0.3$

16) $38\frac{7}{10} = 38 + (7 \div 10) = 38 + 0.7 = 38.7$

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