



Converting Decimals to Fractions or Mixed Numbers

Name: _____

Date: _____



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.

$$1) 0.15 = \frac{0.15}{1} = \frac{0.15 \times 100}{1 \times 100} = \frac{15}{100} = \frac{5 \times 3}{5 \times 20} = \frac{3}{20}$$

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

$$3) 2.35 = \frac{2.35}{1} = \frac{2.35 \times 100}{100} = \frac{235}{100} = \frac{5 \times 47}{5 \times 20} = \frac{47}{20} = 2 \frac{7}{20}$$

$$4) 0.96 = \frac{0.96}{1} = \frac{0.96 \times 100}{1 \times 100} = \frac{96}{100} = \frac{4 \times 24}{4 \times 25} = \frac{24}{25}$$

$$5) 1.05 = \frac{1.05}{1} = \frac{1.05 \times 100}{1 \times 100} = \frac{105}{100} = \frac{5 \times 21}{5 \times 20} = \frac{21}{20} = 1 \frac{1}{20}$$

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

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

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



Convert to decimals.

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

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

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

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

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

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

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

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



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