

***Decimal into fraction:***

*\*\* We can express decimals as fraction by using 10, 100, 1000 and so on in the denominator.*

*\*\* If applicable, reduce the answer to get the lowest term.*

Example 1: Convert the decimals into fractions. And if applicable, reduce the answer to get the lowest term.

a) 0.3    b) 0.15    c) 0.008

Solution:

$$\text{a) } 0.3 = \frac{3}{10}$$

$$\text{b) } 0.15 = \frac{15}{100} = \frac{15 \div 5}{100 \div 5} = \frac{3}{20}$$

$$\text{c) } 0.008 = \frac{8}{1000} = \frac{8 \div 2}{1000 \div 2} = \frac{4 \div 2}{500 \div 2} = \frac{2 \div 2}{250 \div 2} = \frac{1}{125}$$

**Exercise**

**1.** Convert the decimals into fractions. And if applicable, reduce the answer to get the lowest term.

a) 0.55    b) 0.04    c) 0.75    d) 0.25    e) 0.6    f) 0.075

**Fraction into decimal:**

Example 2: Convert the fractions into decimals.

a)  $\frac{3}{10}$    b)  $\frac{27}{100}$    c)  $\frac{341}{1000}$    d)  $\frac{3}{20}$    e)  $\frac{7}{25}$    f)  $\frac{17}{50}$

Solution:

a)  $\frac{3}{10} = 0.3,$

b)  $\frac{27}{100} = 0.27,$

c)  $\frac{341}{1000} = 0.341$

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

e)  $\frac{7}{25} = \frac{7 \times 4}{25 \times 4} = \frac{28}{100} = 0.28$

f)  $\frac{17}{50} = \frac{17 \times 2}{50 \times 2} = \frac{34}{100} = 0.34$

**Exercise**

1. Convert the fractions into decimals.

a)  $\frac{7}{20}$    b)  $\frac{11}{25}$    c)  $\frac{37}{50}$    d)  $\frac{1}{4}$    e)  $\frac{3}{25}$    f)  $\frac{17}{10}$

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