

Changing Fractions to Decimals ==> "moon the fraction"

A fraction is another way of writing a division problem. To change a fraction to a decimal, divide the numerator by the denominator.

Examples

①

About $\frac{1}{20}$ of the heat in a house is lost through the doors.
Write this fraction as a decimal.

$\frac{1}{20}$ means $1 \div 20$ or $20 \overline{)1}$.

$$\begin{array}{r} 0.05 \\ 20 \overline{)1.00} \end{array}$$

So, $\frac{1}{20} = \boxed{0.05}$



Tip:

Simplify fractions if you can
BEFORE you setup the division:

EX) $5/100 = 1/20$

Look!

②

Express $\frac{1}{3}$ as a decimal.

$$\begin{array}{r} 0.33... \\ 3 \overline{)1.00} \end{array}$$

$\frac{1}{3} = 0.33... \text{ or } \boxed{0.\overline{3}}$

The bar status shows that 3 repeats.



Show ALL work on attached loose leaf, label it properly. -- Thanks, Mr. C.

Express each fraction as a decimal. Use bar notation if necessary.

1. $\frac{4}{25}$

2. $\frac{3}{5}$

3. $\frac{7}{20}$

4. $\frac{3}{50}$

5. $\frac{9}{10}$

6. $\frac{7}{8}$

7. $\frac{1}{3}$

8. $\frac{14}{16}$

9. $\frac{20}{30}$

10. $\frac{5}{9}$

11. $\frac{19}{20}$

12. $\frac{5}{200}$