M8 - 4.1 - Converting Fractions, Decimals & % Notes

Fraction to decimal:

$$\frac{1}{10} = 0.1$$

Memorization. See Review and Tables

$$\frac{3}{4} = 0.75$$

Use a calculator or Long Division.

Bottom goes into top.	
bottom	top

Decimal to Fraction:

$$0.63 = \frac{63}{100}$$

Memorization. See Review and Tables

Decimal to Percent

$$0.06 = \frac{6}{100} = 6\%$$

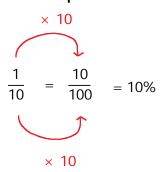
Multiply decimal by 100 (or move decimal 2 places to the right)

Percent to Decimal

$$19\% = \frac{19}{100} = 0.19$$

Divide percent by 100 (or move decimal 2 places to the left)

Fraction to percent:



Find the Equivalent Fraction whose denominator is 100.

The number in the numerator is the percent.

Percentage (%): The top of a fraction over 100.

Percent to Fraction

$$75\% = \frac{75}{100} = \frac{3}{4}$$

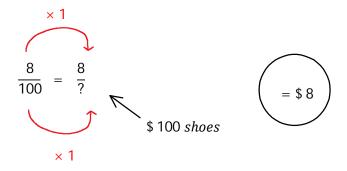
Percentages are the top of a fraction over 100.

Simplify.

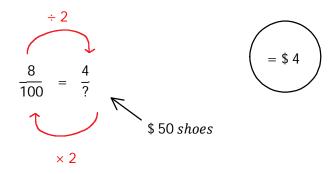
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M8 - 4.2 - % "of" a # Notes

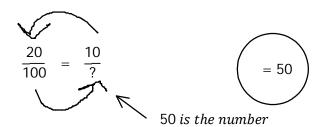
What is 8% tax on \$ 100 shoes?



What is 8% tax on \$ 50 shoes?

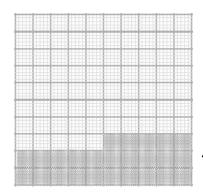


If 20% of a numbe3 is 10, What is the number?



M8 - 4.3 - % Shade Shape Notes

Percentages can be thought of as shaded areas of a 100 square box.



1 shaded square = 1 % of 100 squares



$$\frac{1}{100} = 1\% = 0.01$$

$$\frac{5}{100} = 0.05 = 5\%$$

$$\frac{15}{100} = 0.15 = 15\%$$

 $\frac{25}{100} = 25\% = 0.25$

$$\frac{50}{100} = 0.50 = 50$$

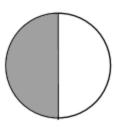
$$\frac{5}{100} = 0.05 = 5\%$$
 $\frac{15}{100} = 0.15 = 15\%$ $\frac{50}{100} = 0.50 = 50$ $\frac{125}{100} = 1.25 = 125\%$

$$\frac{10}{100} = 0.10 = 10\%$$

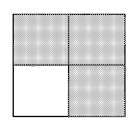
$$\frac{20}{100} = 0.20 = 20\%$$

$$\frac{100}{100} = 1.00 = 100\%$$

$$\frac{20}{100} = 0.20 = 20\%$$
 $\frac{100}{100} = 1.00 = 100\%$ $\frac{200}{100} = 2.00 = 200\%$



$$\frac{1}{2} = \frac{50}{100} = 50\%$$



$$\frac{3}{4} = \frac{75}{100} = 75\%$$