

Percent-Fraction-Decimal Cheat Sheet

Writing a PERCENT as a FRACTION:

ie. $80\% = \frac{80}{100}$ (simplify by dividing top and bottom by the GCF)

$$\frac{80 \div 20}{100 \div 20} = \frac{4}{5}$$

ie. $8\% = \frac{8}{100}$

IF DENOMINATOR ENDS IN a 5 or a 0, then follow this method:

Writing a FRACTION as a PERCENT: $\frac{\#}{100}$

ie. $\frac{4}{5} = \frac{80}{100} = 80\%$

(multiply denominator by # that will get you to the common denominator of 100, then multiply top by the same number.)


$4 \times 20 = 80$ So my fraction is $\frac{80}{100} = 80\%$
 $5 \times 20 = 100$

ie. $\frac{8}{20} = \frac{8 \times 5}{20 \times 5} = \frac{40}{100} = 40\%$

Writing a PERCENT as a DECIMAL:

←

ie. $80\% = \frac{80}{100} = .80$

$.8$

 $\frac{80.0}{100}$

REMEMBER WHEN YOU CONVERT A PERCENT INTO A DECIMAL, YOU MOVE THE DECIMAL 2 PLACES to the LEFT. ←

Writing a FRACTION as a DECIMAL:

A fraction IS a DIVISION PROBLEM

ie. $\frac{4}{5} = 4.0 \div 5 = .8$

5 $\overline{)4.0}$
 $\underline{4.0}$
 0

IF you're told to write the fraction as a percent and to round to the nearest tenth, here's the method:

ie. $\frac{22}{95} = .20 = 20\%$

$.23$ rounds to $.2$

95 $\overline{)22.00}$
 $\underline{-19.0}$
 3.00
 $\underline{-2.85}$
 15

REMEMBER WHEN YOU CONVERT A DECIMAL INTO A PERCENT, YOU MOVE THE DECIMAL 2

PLACES to the RIGHT. →

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SO $.20 = 20\%$

↻ (but you don't need to write the decimal)

"Percent" means "per 100" or "over 100". So, to convert 0.2 to percent we rewrite 0.2 in terms of "per 100" or over 100.

$$.2 \times \frac{100}{100} = \frac{20}{100} = 20\%$$

IF you're asked TO FIND THE PERCENT OF A NUMBER:

= Percent X the Number or
 you can convert % to a decimal and then multiply.

ie. Find 15% of 35 = $15\% \times 35$ or $.15 \times 35 = 5.25$

ie. Find 80% of 40 = $80\% \times 40$ or $.80 \times 40 = 32$