

These *fractions, decimals, & percents* should be immediately recognizable to middle school students. Using your calculator (only when necessary), please fill in the following table. Please mark repeating decimals appropriately.

THESE COMMON F, D, % NEED TO BE MEMORIZED!

Fraction	Decimal	Percent
1/2	0.5	50%
2/2	1.0	100%
1/3	0. $\bar{3}$	33. $\bar{3}$ % or $33\frac{1}{3}$ %
2/3	0. $\bar{6}$	66. $\bar{6}$ % or $66\frac{2}{3}$ %
1/4	0.25	25%
3/4	0.75	75%
1/5 = $\frac{2}{10}$	0.2	20%
2/5 = $\frac{4}{10}$	0.4	40%
3/5 = $\frac{6}{10}$	0.6	60%
4/5 = $\frac{8}{10}$	0.8	80%
1/6	0. $\bar{16}$	16. $\bar{6}$ % or $16\frac{1}{6}$ %
5/6	0. $\bar{83}$	83. $\bar{3}$ % or $83\frac{1}{3}$ %
1/8	0.125	12.5%
3/8	0.375	37.5%
5/8	0.625	62.5%
7/8	0.875	87.5%

Fraction	Decimal	Percent
1/9	$0.\overline{1}$	11.1% or $11\frac{1}{9}\%$
2/9	$0.\overline{2}$	22.2% or $22\frac{2}{9}\%$
3/9 = 1/3	$0.\overline{3}$	33.3% or $33\frac{1}{3}\%$
4/9	$0.\overline{4}$	44.4% or $44\frac{4}{9}\%$
5/9	$0.\overline{5}$	55.5% or $55\frac{5}{9}\%$
6/9 = 2/3	$0.\overline{6}$	66.6% or $66\frac{2}{3}\%$
7/9	$0.\overline{7}$	77.7% or $77\frac{7}{9}\%$
8/9	$0.\overline{8}$	88.8% or $88\frac{8}{9}\%$
1/10	0.1	10%
3/10	0.3	30%
7/10	0.7	70%
9/10	0.9	90%

Why are some fractions missing? For example, I have not included 2/4, 4/6, 4/8, 4/10, or 9/9. Explain.

In the first investigation in *Accentuate the Negative*, you were introduced to **rational numbers**. Rational numbers are defined to be any number that can be written as a **ratio** between integers.

What appears to be true about the decimal representations for each of the *rational numbers* in this table?

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You will have assessments on these common F, D, % weekly!