

Fill in the table with the appropriate simplified fraction, decimal, or percent.

Fraction	Decimal	Percent
$\frac{1}{2}$.5	50%
$\frac{1}{8}$.125	12.5%
$1\frac{5}{8}$	1.625	162.5%
$\frac{47}{100}$.47	47%
$\frac{1}{3}$	$\bar{3}$	$33.\bar{3}\%$
$\frac{17}{100}$	0.17	17%
$\frac{5}{10,000} \rightarrow \frac{1}{2,000}$.0005	0.05%
$\frac{75}{1000} \rightarrow \frac{3}{200}$	0.035	3.5%

<p>54 is what percent of 90?</p> $\frac{54}{90} = \frac{\%}{100}$ <p>$x = 60\%$</p>	<p>120% of what number is 42?</p> $\frac{42}{x} = \frac{120}{100}$ <p>$x = 35$</p>	<p>What number is 62.5% of 96?</p> $\frac{x}{96} = \frac{62.5}{100}$ <p>OR</p> $\frac{x}{96} = \frac{5}{8} \quad x = 60$
<p>What percent of 126 is 18.9?</p> $\frac{18.9}{126} = \frac{\%}{100}$ <p>15%</p>	<p>136 is 40% of what number?</p> $\frac{136}{x} = \frac{40}{100}$ <p>340</p>	<p>37.5% of 64 is what number?</p> $\frac{x}{64} = \frac{37.5}{100}$ <p>OR</p> $\frac{x}{64} = \frac{3}{8} \quad x = 24$

Katie takes three friends out to dinner at Val's. Each dinner costs \$17.50 and Katie wants to leave a 15% tip. What is the amount of tip she leaves for the wait staff? There's an additional 5% food tax. How much money does Katie spend on the 4 dinners, tip, and tax?

$$4 \times 17.50 = \$70 \text{ for 4 meals}$$

$$15\% \text{ of } 70 = \text{Tip}$$

$$\frac{x}{70} = \frac{15}{100}$$

$$\text{Tip} = \$10.5$$

$$5\% \text{ Tax}$$

$$5\% \text{ of } 70$$

$$\frac{x}{70} = \frac{5}{100}$$

$$\text{Tax} = \$3.50$$

	70
Tip:	10.50
Tax:	3.50
Total:	84

Anthony is buying a Nook Tablet. The Nook normally sells for \$320, but is on sale for 20% off. What's the discounted price of the Nook? How much will Anthony have to spend if the sales tax is 6.25%?

$$320 - 20\% \text{ of } 320$$

$$320 - 64$$

$$256$$

$$\text{Sales Tax}$$

$$\frac{x}{256} = \frac{6.25}{100}$$

$$\$16$$

Discounted Price:	256
Sales Tax:	16
Total Cost:	272

In the last 10 years, Holden's population has increased from 13,000 to 17,000. What's the percent of increase?

Show & Explain your solution.

$$\frac{\% \text{ Chg}}{100} = \frac{\text{Amt of Chg}}{\text{Start Amt}}$$

$$\frac{\% \text{ Chg}}{100} = \frac{4000}{13000}$$

$$\% \text{ Chg} = \frac{400}{13}$$

$$\% \text{ Chg} \approx 30.8\%$$