Percents

① What percent of 90 is 54?

$\frac{a}{b} = \frac{p}{100}$

$\frac{54}{90} = \frac{p}{100}$

$\frac{\cancel{90}p}{\cancel{90}} = \frac{5{,}400}{90}$

$\boxed{p = 60\%}$

$p \cdot 90 = 54$

$\frac{\cancel{90}p}{\cancel{90}} = \frac{54}{90}$

$p = 0.6$

$\boxed{p = 60\%}$

② What is 35% of 120?

$\frac{a}{b} = \frac{p}{100}$

$\frac{a}{120} = \frac{35}{100}$

$\frac{\cancel{100}a}{\cancel{100}} = \frac{4{,}200}{100}$

$\boxed{a = 42}$

$n = (.35)(120)$

$\boxed{n = 42}$

③ 85% of what number is 127.5?

$\frac{a}{b} = \frac{p}{100}$

$\frac{127.5}{b} = \frac{85}{100}$

$\frac{\cancel{85}b}{\cancel{85}} = \frac{12{,}750}{85}$

$\boxed{b = 150}$

$.85 \times n = 127.5$

$\frac{\cancel{.85}n}{\cancel{.85}} = \frac{127.5}{.85}$

$\boxed{n = 150}$

④ You deposit: \$1,200

Interest Rate: 4.2%

Time: 5 years

How much interest?

$I = PRT$

$I = (1{,}200)(.042)(5)$

$\boxed{I = \$252}$