FMP10 Name: ____________________________
Date: ____________________________

Unit 7: Personal Finance
7.0 Percent Review

Percent is a way to compare ratios by creating equivalent ratios with a denominator of 100.

Ex. Classroom A has 20 students, of which 13 are female, while classroom B has 27 students, of which 18 are female. Use percent to determine which class has a larger proportion of its students as female.

A $\frac{13}{20} = \frac{x}{100}$

$x = \frac{13(100)}{20} = 65\%$

B $\frac{18}{27} = \frac{x}{100}$

$x = \frac{18(100)}{27} = 66.\overline{6}\%$

$\boxed{\text{Class B}}$

Ex. What is 27% of 50?

$\frac{27}{100} = \frac{x}{50}$ $x = \frac{27(50)}{100} = \boxed{13.5}$

OR

$0.27(50) = \boxed{13.5}$

Ex. 141.6 is 60% of what number?

$\frac{60}{100} = \frac{141.6}{x}$ $x = \frac{100(141.6)}{60} = \boxed{236}$

Ex. A platypus, normally costing $324.99, is on sale for 15% off. What is the cost of the platypus on sale?

$100\% - 15\% = 85\%$ of original cost

$0.85(324.99)$

$= \boxed{\$276.24}$

Ex. A kangaroo is purchased for a price of $579.79 plus 12% tax. What is the total cost?

$100\% + 12\% = 112\%$ of price

$1.12(579.79) = \boxed{\$649.36}$

Practice: WS109/97