

# D: Combining Percents Continued

Examples:

1. A house is priced at \$480,000 in October. Six months later the cost increases by 1.8%.

a) What is the new listing price of the house?

$$\begin{aligned} & 1.8\% \text{ of } \$480,000 \checkmark & 1.8 \div 100 = 0.018 \checkmark \\ & = 0.018 \times 480,000 \checkmark \\ & = \$8,640 \checkmark \end{aligned}$$

$$\begin{array}{r} \$480,000 \\ + \quad 8,640 \\ \hline \$488,640 \checkmark \end{array} \quad \text{The new listing price is } \$488,640. \checkmark$$

b) What is the total cost of the house if there is 6% PST in the province?

$$\begin{array}{r} \text{TAX} \\ \text{GST } 5\% \\ \text{PST } 6\% \\ \hline 11\% \checkmark \end{array} \quad \begin{aligned} & 11\% \text{ of } \$488,640 \checkmark & 11 \div 100 = 0.11 \checkmark \\ & = 0.11 \times 488,640 \checkmark \\ & = \$5,375.04 \checkmark \end{aligned}$$

$$\begin{array}{r} \$488,640 \\ + \quad 5,375.04 \\ \hline \$542,390.40 \checkmark \end{array}$$

The total cost of the house is \$542,390.40. ✓