

# Assignment #16

September-19-13 9:38 AM

#1. \$175 sells for \$150

$$\begin{array}{r} 175 \\ -150 \\ \hline \end{array}$$

\$25.00 → %??

$$\frac{\$25}{\$175} = 0.143 \times 100\% = \boxed{14.3\%}$$

#2. \$15.97 → discount %?

$$\frac{\$15.97}{5 \text{ shirts}} - \frac{\$3.194}{\$15.97} = 0.2 \times 100\% = \boxed{20\%}$$

#3. 789 x 6 computers = 4734

$$789 \times 5 \text{ " " } = \underline{-3945}$$

$$789 \div 4734 = 0.1667$$

x 100%

$$\boxed{16.7\%}$$

#4. \$249.95

$$\begin{array}{r} \times 0.25 \\ \hline \$62.49 \end{array}$$

$$\begin{array}{r} 249.95 \\ - 62.49 \\ \hline \end{array}$$

187.46

x 0.11

20.62

$$\begin{aligned} &5\% \text{ GST} + 6\% \text{ PST} \\ &= 11\% \text{ taxes total} \\ &= 0.11 \end{aligned}$$

$$\$187.46 + 20.62 = \boxed{\$208.08}$$

$$\begin{array}{r} \#5. \quad \$149 \\ \times 0.3 \\ \hline \$44.70 \end{array}$$

$$149 - 44.70 = \$104.30$$

$$\begin{array}{r} \times 0.05 \\ \hline \$5.22 \text{ taxes} \end{array}$$

5% GST  
= 0.05

$$\$104.30 + \$5.22 = \boxed{\$109.52}$$

$$\begin{array}{r} \#6. (a) \quad 249.95 \\ \times 0.4 \\ \hline \boxed{\$99.98} \end{array}$$

(b) Without sale

$$\begin{array}{r} 249.95 \\ \times 0.13 \\ \hline \$32.49 \end{array}$$

with sale price

$$\begin{array}{r} 249.95 - 99.98 \\ = 149.97 \\ \times 0.13 \\ \hline \$19.49 \end{array}$$

5% GST  
8% PST  

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13%

$$\frac{13}{100} = 0.13$$

$$32.49 - 19.49 = \textcircled{13} + \textcircled{99.98} = \boxed{\$112.98}$$

saved in taxes      40% off      total savings

(c)  $\frac{\$112.98}{249.95} = 0.452 \times 100\% = \boxed{45.2\%}$

249.95