## 4.3 Sales Tax and Price Markups

We pay sales tax on most items in BC. The provincial sales tax (PST) is  $\frac{7\%}{}$  while the goods and services tax (GST) is  $\underline{5\%}$ . Total: 12%

Prices for goods and services rise and fall due to consumer supply and demand. The cost of materials and labour also contribute to price adjustment. An additional amount, called markup, is added to these costs so that a **profit** can be made. The markup is usually a percent of the wholesale price.

## **Examples**

**Ex 1.** A furniture store in BC is selling a bedroom suite. The list price for the suite is \$1599.00.

5% + 7% = 12%

a) What will the total cost be including GST and PST? 1) Find tax: 12% of \$ 1599.00 2) Add tax to item cost. =\$1599+\$191.88

=\$191.88

\$ 1790.88

b) How can you find the total cost with tax in one step?

Paying 100% of \$1599, plus another 12% tax => 112% of \$1599 | 112% of \$1599

**Ex 2.** Kelsea is purchasing fabric at a wholesale price for her custom sewing business. She pays \$46.00/m for the fabric. Her markup is 20% of the fabric cost. What will Kelsea charge her client per meter?

20% of \$\$46 + \$9.20 120% of \$\$46 + \$9.20  $0.20 \times $46 = $55.20/m$   $1.20 \times 46$ = \$ 9.20 markup

=\$55.20/m

Ex 3. John spent \$2500 on a used car and parts needed to fix it up. If he sold it for \$3700 what

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percent profit did he make?

Profit = \$3700 - \$2500 = \$1200 % Profit = \$1200 x 100% = 0.48 × 100

= 48%