Math 8 Name__________________
Date________________

8.5 Percents & Financial Literacy

Example 1: Total Cost

Suppose GST is 5% and PST is 7%. Calculate the total tax and total cost of a sound system that is priced at $250.

$\underbrace{\text{5\% and PST is 7\%}}_{12\%\ \text{tax}}$

100% price + 12% tax

112% of 250

$1.12(250) = \boxed{\$280}$

Example 2: Total Cost After a Discount

A $420 bike you want to buy is 30% off! What will you pay for the bike after 7% PST and 5% GST?

+12%

112% of 70% of 420

$1.12(0.7)(420) = \boxed{\$329.28}$

Example 3: Combining Discounts

A gaming system, usually $400, is 20% off. You find a coupon for another 40% off, including sale items.

a) What is the final sale price (with both discounts applied)?

60% of 80% of $400

$0.6(0.8)400$

$= \boxed{\$192}$

b) What is the single overall discount?

$0.6(0.8)$

$= 0.48 = 48\%$ paid

$\boxed{52\%\ \text{discount}}$

$\frac{208}{400} = 0.52$

Practice pg. 291/ #1 – 7, 9 – 11, 14, **15**