#2 Calculating the Sale Price & Total Cost of a Purchased Item

Discount: The amount saved and subtracted from the original price of an item to get the discounted price.

Example 1: In a video store, a DVD that **sells for $15** is marked, **"10% off"**.
What is the discount? What is the sale price of the DVD?

Solution: The discount rate is 10%. Convert the rate to a decimal: $\frac{10\%}{100\%} = 0.10$
The discount is: 0.10 x $15.00 = $1.50
The sale price is calculated as follows: original price - discount
$15.00 - 1.50 = $13.50

Answer: The **discount is $1.50** and the **sale price is $13.50**.

Example 2: What is the total cost of the DVD, knowing that you will have to pay 13% HST

Solution: The price is $13.50.
Convert the HST to a decimal: $\frac{13\%}{100\%} = 0.13$
The discoun tHST is: 0.13 x $13.50 = $1.76
The total price is calculated as follows: sale price + HST
$13.50 + 1.76 = $15.26

Answer: The **HST is $1.76** and the **sale price total cost is $15.26**.

Scenario #2

- Spencer wants to purchase a cell phone.
- Costco is selling the model he wants for $750.00.
- They are offering 10% discount, if cash is paid.
- 13% HST must be paid on all purchases
- Spencer has 5 one-hundred dollar bills, and 14 twenty dollar bills in his wallet.

1. What would be the discount Spencer receives by paying cash	
2. What would be the discounted price of the cell phone?	
3. What would be the HST on the purchase?	
4. How much money would Spencer actually spend to purchase the cell phone?	
5. How much cash does Spencer have in total?	
6. How much change will Spencer receive?	

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