*Calculate the total cost for each item if GST is 5% and PST is 7%.*

***a)*** *Calculate the total tax.*

***b)*** *Calculate the total cost.*

|  |  |  |
| --- | --- | --- |
| **Item** | **a) Total of GST and PST** | **b) Total Cost** |
| Example: DVD for $29.99  | 0.12 × 29.99 = 3.5988 = 3.6The total tax is $3.60. | 29.99 + 3.6 = 33.59The total cost is $33.59.  |
| **1.** 12-V drill for $39.99 |  |  |
| **2.** Car radio for $89.99 |  |  |

**3.** An electronics store offered a 30% discount on MP3 players. The next week, the store offered a further discount of 15% on the already discounted price. The regular price was $45. What is the final sale price? Show your work.

**4.** Dan says that subtracting a 20% discount from the price of an item and then adding 12% for GST and PST taxes is the same as subtracting 8% from the price of the item. Is Dan correct? Explain your reasoning.

*A store is having a 20% off sale on each of the items in the table.*

*Determine the total cost of each item including 5% GST and 7% PST. Show your work.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item Regular Price** | **a) Discount Price** | **b) Sale Price** | **c) GST and PST** | **d) Total Cost** |
| Example: Calculator at $15.49 | 0.20 × 26.49 = 3.098 Discount: $3.10 | 15.49 − 3.10 = 12.39Sale price: $12.39 | 0.12 × 12.39 = 1.4868Taxes: $1.49 | 12.39 + 1.49 = 13.88Total cost: $13.88 |
| **5.** Camera at $129.96 |  |  |  |  |
| **6.** Phone at $17.95 |  |  |  |  |

**7.** The instructions for sketching an adult male say that the head should be 12.5% of the total height. If the total drawn height of a 183-cm man is 30 cm, how many centimetres should the drawing of the head be? Express your answer to the nearest hundredth.

**8.** Is 76% × 5 *or* 75% × 5 greater? Without calculating, think of a reason to support your answer. Explain your reason to a classmate.