WARM UP GRADE 8

Mar. 17, 2016

Find the price of each with tax:

a)

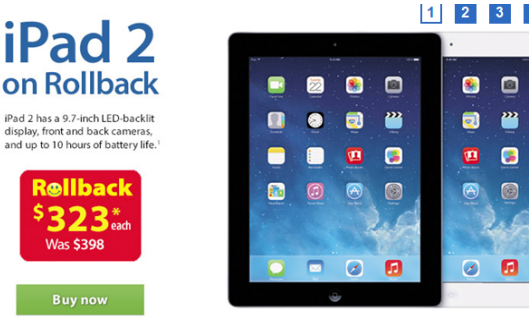
NOW $5.99

Sales tax = 13% of Price
= 0.13 x 5.99
= 0.7787
= 0.78

Total = Price + Tax
= 5.99 + 0.78
= $6.77

The total cost of Purex is $6.77

b)



Sales tax = 13% x 323
= 0.13 x 323
= $41.99

Total = Price + tax
= 323 + 41.99
= $364.99

The ipad 2 cost $364.99

398 on sale for 328

$$\% \text{ dec} = \frac{\text{Diff}}{\text{Orig}} \times 100\ \%$$

$$= \frac{398 - 323}{398} \times 100\ \%$$

$$= \frac{75}{398} \times 100\ \%$$

$$= 0.184 \times 100\ \%$$

$$18.4\ \%$$

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4. a) HST 13% of 15.00
0.13 x 15
1.95

b) HST 13% of 8.99
0.13 x 8.99
1.17

c) HST 13% of 21.99
0.13 x 21.99
2.86

5. a) HST 13% of 89.97
0.13 x 89.97
11.70

b) HST 13% of 24.97
0.13 x 24.97
3.24

c) HST 13% of 17.99
0.13 x 17.99
2.34

6. a) HST 13% of 7.47
0.13 x 7.47
0.97

Total = 7.47 + 0.97
= 7.54

b) HST 13% of 32.99
0.13 x 32.99
4.29

Total
32.99 + 4.29
= 37.28

c) HST 13% of 27.98
0.13 x 27.98
3.64

27.98 + 3.64
Total = 31.62

7. a) (i) HST 13% of 25.99
0.13 x 25.99
3.37

Cal

*(b) Total Cost = Price + tax
= 25.99 + 3.37
= 29.36

Cal

(ii) HST 13% of 152.45
0.13 x 152.45
19.82

skate

Total cost = Price + tax
152.45 + 19.82
172.27

skate

8. (i) a) Discount 20% of 89.99
0.2×89.99
18

b) Sale Price = Reg − Disc
$= 89.99 - 18$
$= 71.99$

c) HST 13% of 71.99
0.13×71.99
9.36

Total Cost = Price + tax
$71.99 + 9.36$
81.35

(ii) Disc 45% of 120
0.45×120
54

Sale Price = Price − Disc
$= 120 - 54$
$= 66$

HST 13% of 66
0.13×66
8.58

Total Cost = Price + tax
$= 66 + 8.58$
$= 74.58$

9. Inc 28% of price

$0.28 \times 304\,000$

$85\,120$

New Price $304\,000 + 85\,120$

$389\,120$

Tax $= 389\,120 \times 0.13$

$= \$50\,585.60$

Total $= 389\,120 + 50\,585.6$

$= \$439\,705.60$

Discount and Sales Price

A discount is when they reduce the amount of an item or they put an item on sale.

Amount of Discount = Rate of discount (%) x Regular Price

Sale Price = Regular Price - Amount of discount

The percent discount = Amount of discount (difference) / Regular Price x 100%

Example; A stereo regularly sells for $149.99 (Reg Price), but it is on sale for 20% (Rate) off. (a) Find the amount of discount (b) Find the sale price

(a) Amt. of Discount = Rate of discount x Regular price

Savings = 20% X 149.99
= 0.20 x 149.99
= 29.998
= $30.00

(b) Sale Price =

= Reg − Amount discount
= 149.99 − 30.00
= $119.99

2. A jacket that regularly sells for $72.50 is discounted by 15%. What is the sale price?

Amount Discount = 15% of 72.50
= 0.15 x 72.50
= 10.88

Sales Price = Reg − Amount Dis
= 72.50 − 10.88
= 61.62

Tax = 13% x 61.62
= 0.13 x 61.62
= 8.01

Price w Tax = 61.62 + 8.01
= $69.63

Calculating Discount and Sales Tax

Determine the sale price and then add on the tax!

A video game in New Brunswick is discounted by 30%.
Its regular price is $27.99.

a) Calculate the sale price of the video game before taxes.

b) Calculate the sale price of the video game including taxe

a) Amount Discounted (saved) = Rate x Reg Price
= 30% X 27.99
= 0.30 X 27.99
= 8.40

Sales Price = Reg Price − Amount Discounted
= 27.99 − 8.40
= 19.59

b) Tax = 13% X Price
= 0.13 X 19.59
= 2.55

Cost w tax = Sale Price + tax
= 19.59 + 2.55
= $22.14

Class/Homework

Quiz Tuesday, Mar. 22

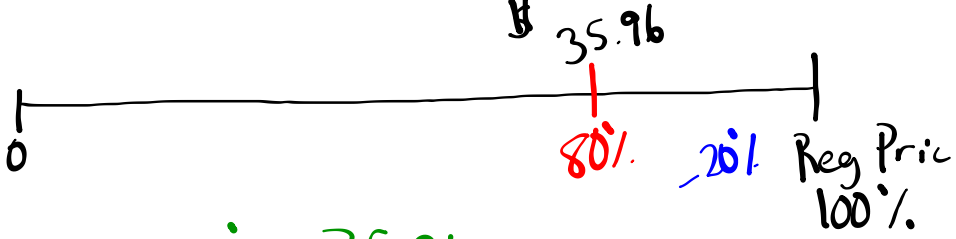
Always use 13%

Homework pg. 260 # 8,10-17

8, ~~10~~, 11, 12, 13, 14, 15

Microwave

13) During a 20% off sale, the sales price of an MP3 alarm clock was $35.96 What was the reg price of the radio?



80% of Reg is 35.96

$0.80 \times R = 35.96$

$\frac{0.80R}{0.80} = \frac{35.96}{0.80}$

$R = \$44.95$

The Regular Price of MP3 player is $44.95

15) 67% of RegPrice = 28.38

11 a) $\%\ \text{dec} = \frac{\text{Diff}}{\text{orig}} \times 100\ \%$

$= \frac{\text{Big} - \text{Small}}{\text{original}} \times 100\ \%$

$= \frac{18.98 - 11.39}{18.98} \times 100\ \%$

$= \frac{7.58}{18.98} \times 100\ \%$

$=$