WARM UP GRADE 8

Mar. __, 2017

Quiz wednesday, Mar. 22

Find the price of each with tax:

a)

NOW $5.99

Tax = 15% of 5.99

= 0.15 x 5.99

= 0.8985

= $0.90

Total Cost = 5.99 + $0.90

= $6.89

The Purex soap is $6.89 with tax

b)

Could you tell me the % decrease?

15% of 323

Tax = 0.15 x 323

= $48.45

Total Cost = Price + tax

= 323 + $48.45

= $371.45

Original 398

Sale 323

Difference = 398 − 323

= $75

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

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

$$= 0.1884 \times 100$$

$$\approx 18.84\,\%$$

$$\approx 19\,\%$$

WARM UP GRADE 8

Mar. 17, 2016

Find the price of each with tax:

a)

NOW $5.99

Sales tax = 15% of Price
= 0.15 x 5.99
= 0.8985
= 0.90

Total = Price + Tax
= 5.99 + 0.90
= $6.89

The total cost of Purex is $6.89

b)

Sales tax = 15% x 323
= 0.15 x 323
= $48.45

Total = Price + tax
= 323 + 48.45
= $371.45

The ipad 2 cost $371.45

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 15% of 15.00
0.15 x 15
2.25

b) HST 15% of 8.99
0.15 x 8.99
1.35

c) HST 15% of 21.99
0.15 x 21.99
3.23

5. a) HST 15% of 89.97
0.15 x 89.97
13.50

b) HST 15% of 24.97
0.15 x 24.97
3.75

c) HST 15% of 17.99
0.15 x 17.99
2.70

6. a) HST 15% of 7.47

0.15×7.47

1.12

Total = 7.47 + 1.12

= $8.59

b) HST 15% of 32.99

0.15×32.99

4.95

Total

32.99 + 4.95

= 37.94

c) HST 15% of 27.98

0.15×27.98

4.20

27.98 + 4.20

Total = 32.18

7. a) (i) HST 15% of 25.99

0.15×25.99

3.90

Cal 25.99 + 3.90 = 29.89

(b) Total Cost = Price + tax

= 25.99 + 3.90

= 29.89

Cal

(ii) HST 15% of 152.45

0.15×152.45

22.84

skate

Total cost = Price + tax

152.45 + 22.84

175.32

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 15% of 71.99
0.15×71.99
10.80

Total Cost = Price + tax
$71.99 + 10.80$
82.79

(ii) Disc 45% of 120
0.45×120
54

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

HST 15% of 66
0.15×66
9.90

Total Cost = Price + tax
$= 66 + 9.90$
$= 75.90$

9. Inc 28% of price

$0.28 \times 304\,000$

$85\,120$

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

$389\,120$

Tax $= 389\,120 \times 0.15$

$= \$5838$

Total $= 389\,120 + 5838$

$= \$394\,958$

Discount and Sales Price

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

Savings %

Amount of Discount = Rate of discount x Regular Price

Saved

Sale Price = Regular Price - Amount of discount

difference

The percent discount = Amount of discount x 100%
% dec **Regular Price**

Reg Price Rate

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

Saved

(a) Amt. of Discount = Rate of discount x Regul
= 20 % of 149.99
= 0.2 x 149.99
= 30

Saved

(b) Sale Price = Regular Price - Amt. of Discount
= 149.99 - 30
= $119.99

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

orig

Amount Discount = Rate x Price
= 15% x $72.50
= 0.15 x $72.50
= $10.88

New Sales Price = Orig - Amount Saved
= $72.50 - $10.88
= $61.62

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

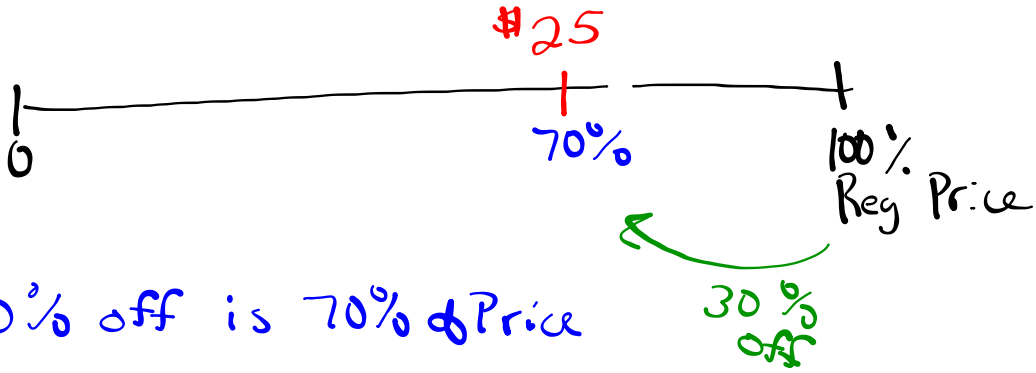
a) Amount Saved = 30% of $27.99
= 0.30 x $27.99
= $8.40

Sales Price = Reg - Saved
= 27.99 - 8.40
Sale Price = $19.59

b) Tax = 15% of Price
= 0.15 x $19.59
= $2.94

Total Cost With Tax = Sale Price + tax
= 19.59 + 2.94
= $22.53

A game is on sale for $25 which is 30%off Regular Price. What is Regular Price?



30% off is 70% of Price

70% of RegPrice = $25

$0.70P = \$25$

$\frac{0.70P}{0.70} = \frac{\$25}{0.70}$

$P = \$37.71$

So Regular Price was $37.71

Class/Homework

Quiz _____, Mar. ___

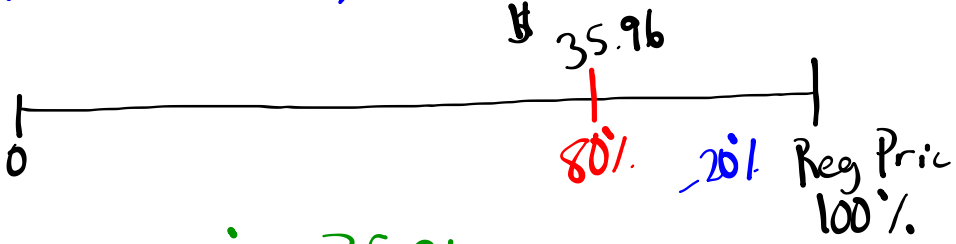
Always use 15%

Homework pg. 260

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

8 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

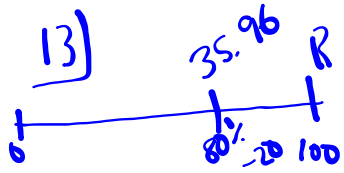
$0.80 \times R = 35.96$

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

$R = \$44.95$

The Regular Price of MP3 player is $44.95

13)



80% of R = 35.96

15) 67% of RegPrice = 28.38

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

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

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

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

$=$