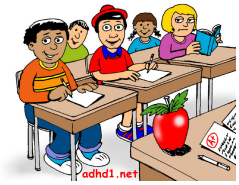
Warm Up Gr 8



Date: Oct 22

Quiz Friday

Percent, decimal fraction, sales tax & discount

Find the total price including tax to buy this in NB.

Tax = 15% of Price
↓
0.15 × $1698
$254.70

Cost w tax = Price + Tax $
= $1698 + $254.70
= $1952.70

WS solutions

1. Find the amount of sales tax required in NB, for the following items:

(a) a desk $79 **(b) A Box of chocolates $9.95**

(c) a TV $ 890.99 **(d) a pair of sneakers $129.98**

1a) Tax = 15% of $79

= 0.15 x $79

= $11.85

1b) Tax = 15% of $9.95

= 0.15 x $9.95

= $1.49

1c) Tax = 15% of $890.99

= 0.15 x $890.99

= $133.65

1d) Tax = 15% of $129.98

= 0.15 x $129.98

= $19.50

Solutions

(a) a phone $ 74.50
(b) a pair of gloves $ 7.65
(c) a T-Shirt $ 27.45
(d) a supper $ 12.35
(e) A coat $45.67
(f) sled $ 24.99
(g) Furby $64.60
(h) a PVR $ 312.15
(i) Kids Snow suit $89.99
(j) a popcorn $5.39

2a) Tax = 15% of $74.50
= 0.15 x $74.5
= $11.18

Total costs = Price + tax
= $74.50 + $11.18
= $86.68

b) Tax = 15% of $7.65
= 0.15 x $7.65
= $1.15

Total costs = Price + tax
= $7.65 + $1.15
= $8.80

c) Tax = 15% of $27.45
= 0.15 x $27.45
= $4.12

Total costs = Price + tax
= $27.45 + $4.12
= $31.57

d) Tax = 15% of $12.35
= 0.15 x $12.35
= $1.85

Total costs = Price + tax
= $12.35 + $1.85
= $14.20

e) Tax = 15% of $45.67
= 0.15 x $45.67
= $6.85

Total costs = Price + tax
= $45.67 + $6.85
= $52.52

f) Tax = 15% of $48.74
= 0.15 x $24.99
= $3.75

Total costs = Price + tax
= $24.99 + $3.75
= $28.74

g) Tax = 15% of $64.60
= 0.15 x $64.60
= $9.69

Total costs = Price + tax
= $64.60 + $9.69
= $56.29

h) Tax = 15% of $312.15
= 0.15 x $312.15
= $46.82

Total costs = Price + tax
= $312.15 + $37.50
= $358.97

i) Tax = 15% of $89.99
= 0.15 x $89.99
= $13.50

Total costs = Price + tax
= $89.99 + $13.50
= $103.49

j) Tax = 15% of $5.39
= 0.15 x $5.39
= $0.81

Total costs = Price + tax
= $5.39 + $0.81
= $6.28

Discount and Sales Price

A discount is when they reduce the amount of an item or they put an item on sale. ****Always change % to decimal before using****

Amount SAVED or amount discounted **=** **% of discount** **x Regular Price**
= **(Change to decimal) x Regular Price**

Sale Price = Regular Price - Amount of SAVED

Example 1)
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

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

= 20% of Price
= 0.20 x $149.99
= $29.998
= $30.00

(b) Sale Price = Regular Price - Amt. of 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?

Discount Amount Saved = % of Price
= 15% of $72.50
= 0.15 × $72.50
= $10.87

Sale Price = Price − Saved$
= $72.50 − $10.87
= $61.63

Security Cameras Regular cost $299.99 but are going on sale for 30% off.

a) What is the amount saved?

b) What is the sales price?

c) What is the Tax on the price?

d) What is the cost with tax?

Amt of Disc = 30% of $299.99
= 0.30 x $299.99
= $90.00

89.99
90.00

Sale Price = Price - Amount Saved
= 299.99 - $90.00
= $209.99

Tax = 15% of Price
= 0.15 x 209.99
= $31.50

Total Cost = Price + tax
= 209.99 + 31.50
= $241.49
=

You try

Ex 2) A movie is regularly $19.99. If it goes on sale for 8% off then what is sales price? (Show all work)

Movie - $19.99 8% disc

Disc - 8% of 19.99

= ÷100

0.08 x 19.99

= 1.5992 ≈ 1.60

Sale Price = Price − Disc

= 19.99 − 1.60

= $18.39

Sales Price = Price - Amount Discount

Homework Sheet 247 # 1 , 2, 3

Amount Discount = % (Decimal) x Price

1. Calculate the sale price if you have 30% off of $29.99

2) For each of the following calculate the discount only.

1. 40% off 9.98 b. 96% off $5 c. 1% off $17.60 d. 10% off $19.95
   e. 5% off 3.25

f. 20% off $87.49 g. 29% off $1500 h. 33.3% off $15

3) A $7.99 t-shirt is on sale for 50% off. Fred buys 6 t-shirts how much does he save?

Sheet 247 Calculating Discount.docx