

March 9, 2015<sup>4th</sup>  
Starter

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1. What is 3% of 15?

2. 12 is what percent of 40?

3. 36 is 75% of what number?

Gigi

### 3/9 Sales Tax, Discount, and Mark-Up

Original price of a telescope: \$219.50

Tax: 7.25%

Find 7.25% of \$219.50 then  
add it to the original price.

7.25% of \$219.50  
multiply

$$(0.0725)(219.50)$$

$$0.0725 \times 219.5 = 15.91875$$

$$= \$15.91$$

Round: 2 places

$$\$219.50$$

$$+ 15.91$$

$$\underline{\$235.41}$$



Original price of a truck: \$44,000.00

Tax: 7.375%

$$\begin{aligned} & \leftarrow 7.375\% \text{ of } \$44,000 \\ & (0.07375)(44,000) \\ & = \$3,245 \end{aligned}$$

$$0.07375 \times 44000 = 3245$$

$$\begin{array}{r} \$44,000 \\ + 3,245 \\ \hline \$47,245 \end{array}$$



Find 7.375% of \$44,000 then add it to the original price.

Find the sale price of the bike if:  
Original price of a bicycle: \$500.00  
Discount: 40%



Find 40% of 500 then subtract  
it from the original price.

$$\begin{aligned} & \text{40\% of 500} \\ & \text{(.4)(500)} \\ & = 200 \end{aligned}$$

$$\begin{array}{r} \$500 \\ - 200 \\ \hline \$300 \end{array}$$

Original price of a camera: \$149.95

Discount: 15%

Find 15% of 149.95 then subtract it from the original price.

Find 15% of 149.95

$$(.15)(149.95)$$

$$0.15 \times 149.95 = 22.4925$$

$$= \$22.49$$

$$149.95 - 22.49$$

$$= \$127.46$$

$$149.95 - 22.49 = 127.46$$



Cost of a hat: \$8.99

Markup: 25%

Find 25% of 8.99 then add it to the original price.

25% of 8.99

$$(.25)(8.99)$$

$$0.25 \times 8.99 = 2.2475$$

$$= \$2.25$$

\$ 8.99

2.25

\$ 11.24



Original price of a shirt: \$12.50

Discount: 25%

Tax: 6.5%



$$\textcircled{1} \quad (.25)(12.50)$$
$$0.25 \times 12.5 = 3.125$$
$$= \$3.13 \text{ Discount}$$

$$\textcircled{2} \quad \begin{array}{r} \$12.50 \\ - 3.13 \\ \hline \$9.37 \end{array} \text{ Sale Price}$$

$$\textcircled{3} \quad (.065)(9.37)$$
$$0.065 \times 9.37 = 0.60905$$
$$= 0.61 \text{ Tax}$$

$$\textcircled{4} \quad \begin{array}{r} \$9.37 \\ + 0.61 \\ \hline \$9.98 \end{array}$$

1. Find 25% of 12.50
2. Subtract it from the original to get the sale price.
3. Find 6.5% of the sale price to get the tax.
4. Add it to the sale price.

Cost of a shirt: \$52.50

Markup: 25%

Tax: 6.5%

$$\textcircled{1} \quad (.25)(52.50)$$

$0.25 \times 52.5 = 13.125$   
 $= \$13.13$  Markup

$$\textcircled{2} \quad \begin{array}{r} \$52.50 \\ 13.13 \\ \hline \$65.63 \end{array}$$

$$\textcircled{3} \quad (0.065)(65.63)$$

$0.065 \times 65.63 = 4.26595$   
 $= 4.27$  Tax

$$\textcircled{4} \quad \begin{array}{r} \$65.63 \\ + 4.27 \\ \hline \$69.90 \end{array}$$



1. Find 25% of 52.50
2. Add it to the original price
3. Find 6.5% of the new price
4. Add it to the new price.



Cost of shorts: \$22.50

Markup: 75%

Discount: 30%

Tax: 6.375%



$$\begin{aligned} \textcircled{1} & (0.75)(22.50) = \$16.88 \\ \textcircled{2} & 22.50 + 16.88 = \$39.38 \\ \textcircled{3} & (0.30)(39.38) = \$11.81 \\ \textcircled{4} & 39.38 - 11.81 = \$27.57 \\ \textcircled{5} & (0.06375)(27.57) = \$1.76 \\ \textcircled{6} & 27.57 + 1.76 = \boxed{\$29.33} \end{aligned}$$

1. Find 75% of 22.50
2. Add it to the original price
3. Find 30% of the new price to get the discount
4. Subtract it from the new price to get the sale price
5. Find 6.375% of the sale price
6. Add it to the sale price

Homework  
Blue WS4.

Due Today