6.5 Discount and Markup (Part 2)

You can find the sale price of an item in two ways. For example: the original price of a guitar is $256 at 25% discount.

METHOD 1

Step 1: Find the amount of discount.

$0.25 \cdot \$256 = \$64$

Step 2: Subtract to find the sale price.

$\$256 - \$64 = \$192$

METHOD 2

Step 1: Subtract % off from 100% to find the % you pay.

$100\% - 25\% = 75\%$

Step 2: Multiply to find the sale price.

$0.75 \cdot \$256 = \$192$

Example: Find the sale price using either method. (The price given is the original price)

$35 lamp at 20% off

Method #1:

35
x .2
7.0

$35 - $7 = $28

Method #2:

100 − 20 = 80%

80% = 0.80

35
x 0.8
28.0

$28

Example: Find the sale price using either method.
(The price given is the original price)

$260 watch at 45% off

Method #2: $100 - 45 = 55\%$

0.55

$$\begin{array}{r} {}^{3} \\ 260 \\ \times\ 0.55 \\ \hline 1300 \\ +13000 \\ \hline 143.00 \end{array}$$

$143

Example: Find the sale price using either method.
(The price given is the original price)

$400 motorcycle at 35% off

Method #2: $100 - 35 = 65\%$

0.65

$$\begin{array}{r} 400 \\ \times\ 0.65 \\ \hline 2000 \\ +24000 \\ \hline 260.00 \end{array}$$

$260

Example: Find the sale price using either method.
(The price given is the original price)

$764 vacation trip at 15% savings → 0.15

Method #1:

$$764 \times 0.15 = 3820 + 7640 = 114.60$$

$764.00 − 114.60 = $649.40

Method #2:

Example: A magazine subscription has a cover price of $35. It is on sale for 67% off the original price. Find the sale price of the magazine subscription.

Method #2: $100 - 67 = 33\% \rightarrow 0.33$

$$35 \times 0.33 = 105 + 1050 = 11.55$$

$11.55