Markups and Markdowns Word Problems - Guided Lesson Explanation

Explanation#1

Given that the discount rate is 40%, the sale price is (100 - 40) 60% of the original price.

Let the original price be x.

This reasoning can be expressed as 12 = 0.60x

Dividing both sides by 0.60 gives an original price of \$20.

So, the original price is \$20.

Now the discount is: Original price X Discount rate = Discount amount

\$20 X 40% = \$8

So original price is \$20 and the discount is \$8.

Explanation#2

We have to calculate the selling price of the lamp. We have given original price at \$4 and the discount is 20% off.

Discount (amount) = Original price X Discount rate

=	\$4	Х	20%
=	\$4	Х	.20
Discount (amount) =	\$0.80		

Original price – Discount = Selling Price

\$4 - \$0.80 = \$3.20



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Explanation#3

The discount is 40% of \$50 (original price).

The sale price of the pen is the original price minus the discount.

The Discount:

40% of 50 = \$20

Sales price = Original price – Discount

= \$50 - \$20

= \$30

We can also calculate sales price another way:

100 - Discount % = 100 - 40 = 60%

 $60\% \times 50 = 30

So the sale price of the pen before sales tax is \$30.

