

James

Dec<sup>15</sup>, 2005

## THE MUSEUM PROBLEM

A museum gift shop is having a craft sale. The entrance fee is \$ 2.

● Once inside, there is a special discount table where each craft piece costs \$ 3.

How could you represent the total amount that you would spend if you were to buy any number of craft pieces at the discount price?

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# THE MUSEUM PROBLEM

A museum gift shop is having a craft sale. The entrance fee is \$ 2. Once inside, there is a special discount table where each craft piece costs \$ 3.

What would be the total amount that you would spend if you bought 10 craft pieces?

$$\begin{array}{r}
 10 \text{ CP} \\
 \times 3 \text{ cost} \\
 \hline
 30 + 2 \text{ entrance} = \$32
 \end{array}$$

What would be the total amount that you would spend if you bought 30 craft pieces?

$$\begin{array}{r}
 30 \text{ CP} \\
 \times 3 \text{ cost} \\
 \hline
 90 + 2 = \$92
 \end{array}$$

What would be the total amount that you would spend if you bought 100 craft pieces?

$$\begin{array}{r}
 100 \text{ CP} \\
 \times 3 \text{ cost} \\
 \hline
 300 + 2 = \$302
 \end{array}$$

How could you represent the total amount that you would spend if you were to buy any number of craft pieces at the discount price?

~~For every~~ For how many craft pieces you want, you multiply it times 3 then add 2 to get how much money you spend.

$$\text{CP} \times 3 + 2 = \text{how much money}$$

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Does this problem remind you of any other problems that we have done? yes

If so - which problem or problems - and how are they alike?

I + reminds me of the problem I did with the blocks.

They are alike, because in the block problem you multiply the number of steps you picked times 3 then add 2 to find out how many blocks.

And in this problem you multiply the number of craft pieces you want by 3 then add 2 to see how much money you'll need.

X.

multiply X by 3 and add entrance fee \$2.

~~A = 3 items~~

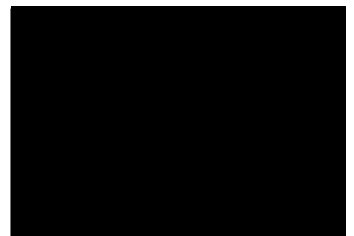
$$A - 2 \div 3 = X$$

~~A \div 3 - 2 = items~~

$$X * 3 + 2 = \text{total } A$$

$$X * 3 + 2 = A$$

Ariel



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