## Answer on Question \#41514- Math - Algebra

## Question:

Dick is in charge of purchasing office supplies and his budget is $\$ 175.00$. Paper is $\$ 21.99$ a box, toner cartridges are 52.90 each and folders are $\$ 0.99$ each. All the office supplies are $20 \%$ off. If Dick needs to buy 3 boxes of paper and 2 toner cartridges
How many folders can he buy?

## Solution:

3 boxes of paper cost $3 * 21.99=65.97,2$ toner cartridges cost $2 * 52.90=105.8$.
Given that there's $20 \%$ off for all office supplies, then 3 boxes of paper cost $3 * \$ 21.99 * 0.8=\$ 52.78$, 2 toner cartridges cost $2^{*} \$ 52.90^{*} 0.8=\$ 84.64$, the price of folder is $\$ 0.99^{*} 0.8=\$ 0.792$.

So, after buying these things given that there's $20 \%$ off for all office supplies, he will have only \$175-\$52.78-\$84.64= \$37.58.

As 37.58/0.792=47.45, hence he can buy only 47 folders.

Answer: 47.

