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.

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