

Name:

Date:

Christmas Shopping.



Use the information below to calculate the cost of each toy.

$$\text{Truck} + \text{Bear} = \$4.70$$

$$\text{Truck} + \text{Ball} + \text{Xylophone} = \$4.70$$

$$\text{Xylophone} + \text{Ball} = \$3.50$$

$$\text{Bear} + \text{Xylophone} = \$6.00$$





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Now you have calculated the price of each toy work out the cost of:

1)  +  =



1)  +  =

1)  +  =

1)  +  +  =

1)  +  +  =

1)  +  +  =

1)  +  +  +  =

Answers.

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$$\text{Bear} + \text{Xylophone} = \$6.00$$

Using the first two equations:

$$\text{Ball} + \text{Xylophone} = \text{Bear}$$

∴ Equation 3 shows

$$\text{Bear} = \$3.50$$

Continuing to use substitution will give the following answers:



$$\text{Truck} = \$1.20 \quad \text{Xylophone} = \$2.50 \quad \text{Ball} = \$1.00 \quad \text{Bear} = \$3.50$$

Answers.




Christmas Shopping.




Now you have calculated the price of each toy work out the cost of:




1)  +  = \$3.50

2)  +  = \$2.20

3)  +  = \$6.00

4)  +  +  = \$7.20

5)  +  +  = \$5.70

6)  +  +  = \$6.00

7)  +  +  +  = \$8.20