

1. If hardcover books are \$4.99 each and paperback books are \$1.49 each, how much would you need to buy 3 hardcover books and 4 paperback books if sales tax is 5.5%?

1. 3 Hardcover:

$$\begin{array}{r} 4.99 \\ \times 3 \\ \hline 14.97 \end{array}$$

Tax:

$$\begin{array}{r} 20.93 \\ \times 0.055 \\ \hline 10465 \\ + 104650 \\ \hline 115115 \end{array}$$

4 Paperback:

$$\begin{array}{r} 1.49 \\ \times 4 \\ \hline 5.96 \end{array}$$

\$1.15115 ≈ \$1.15

Total with tax:

$$\begin{array}{r} 20.93 \\ + 1.15 \\ \hline 22.08 \end{array}$$

Total without tax:

$$\begin{array}{r} 14.97 \\ + 5.96 \\ \hline 20.93 \end{array}$$

Total cost: \$22.08

2. A box of 10 crayons is 99¢, a box of 15 crayons is \$1.24, and a box of 50 crayons is \$3.99. If you buy 3 boxes of 10 crayons, 4 boxes of 15 crayons, and 2 boxes of 50 crayons, how much money would you need to bring if sales tax is 7%?

2. 3 boxes of 10 crayons:

$$\begin{array}{r} 0.99 \\ \times 3 \\ \hline 2.97 \end{array}$$

Total without tax:

$$\begin{array}{r} 2.97 \\ 4.96 \\ + 7.98 \\ \hline 15.91 \end{array}$$

Total:

$$\begin{array}{r} 15.91 \\ + 1.11 \\ \hline 17.02 \end{array}$$

Total cost: \$17.02

4 boxes of 15 crayons:

$$\begin{array}{r} 1.24 \\ \times 4 \\ \hline 4.96 \end{array}$$

Tax:

$$\begin{array}{r} 15.91 \\ \times 0.07 \\ \hline 11137 \end{array}$$

2 boxes of 50 crayons:

\$1.1137 ≈ \$1.11

$$\begin{array}{r} 3.99 \\ \times 2 \\ \hline 7.98 \end{array}$$

3. Peng wants to buy flowers for his girlfriend for her birthday. He goes to the store to buy flowers and sees that roses are \$3.75 each, daisies are \$1.49 each, and lilies are \$2.09 each. He wants to get her a rose, four daisies and three lilies. If he has \$15.50 in his pocket and sales tax is 6.25% does he have enough money? If yes, how much will he have left? If he does not have enough, how much more does he need?

3. 1 rose : \$3.75

4 daisies:

$$\begin{array}{r} 1.49 \\ \times 4 \\ \hline 5.96 \end{array}$$

3 lilies:

$$\begin{array}{r} 2.09 \\ \times 3 \\ \hline 6.27 \end{array}$$

Total without tax:

$$\begin{array}{r} 3.75 \\ 5.96 \\ + 6.27 \\ \hline 15.98 \end{array}$$

Tax:

$$\begin{array}{r} 15.96 \\ \times 0.0625 \\ \hline 7990 \\ 31960 \\ + 958800 \\ \hline 0.998750 \end{array}$$

$$\$0.998750 \approx \$1.00$$

Total:

$$\begin{array}{r} 15.98 \\ + 1.00 \\ \hline 16.98 \end{array}$$

Total cost: \$16.98

He does not have enough:

$$\begin{array}{r} 16.98 \\ - 15.50 \\ \hline 1.48 \end{array}$$

He needs \$1.48 more

4. Steven needs to have copies made. Black and white copies are 4¢ each and color copies are 49¢ each. If he gets 75 black and white copies and 17 color copies, how much does he spend if sales tax is 5.85%?

4. 75 B&W copies:

$$\begin{array}{r} 0.04 \\ \times 75 \\ \hline 20 \\ + 280 \\ \hline 3.00 \end{array}$$

17 color copies:

$$\begin{array}{r} 0.49 \\ \times 17 \\ \hline 343 \\ + 490 \\ \hline 8.33 \end{array}$$

Total without tax:

$$\begin{array}{r} 3.00 \\ + 8.33 \\ \hline 11.33 \end{array}$$

Tax:

$$\begin{array}{r} 11.33 \\ \times 0.0585 \\ \hline 5665 \\ 90640 \\ + 566500 \\ \hline 0.662805 \end{array}$$

$$\$0.662805 \approx 0.66$$

Total:

$$\begin{array}{r} 11.33 \\ + 0.66 \\ \hline 11.99 \end{array}$$

Total cost: \$11.98