

## Solving Money Problems

dollars		cents
1 1		1
\$ 1 4	.	0 5
2	.	1 0
+ 5 4	.	9 5
<div style="display: flex; justify-content: space-between; width: 100%;"> <span>\$ 7 1</span> <span style="border-left: 2px solid yellow; border-right: 2px solid yellow; text-align: center;">.</span> <span>1 0</span> </div>		

Add dollar and cent amounts in columns the same way as any other numbers. You can imagine that the decimal point is not there while calculating. Just remember to put it in the answer!

Use the dollar symbol (\$) in the first item and in the answer, when adding in columns.

1. Add the dollar amounts.

**a.**

$$\begin{array}{r} \$ 2 . 2 5 \\ + 4 . 6 0 \\ \hline \end{array}$$

**b.**

$$\begin{array}{r} \$ 5 . 6 5 \\ 7 . 5 0 \\ + 2 2 . 2 5 \\ \hline \end{array}$$

**c.**

$$\begin{array}{r} \$ 2 . 9 5 \\ 5 . 7 5 \\ 1 . 4 0 \\ + 6 . 7 0 \\ \hline \end{array}$$

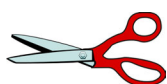
**d.**

$$\begin{array}{r} \$ 2 0 . 4 5 \\ 2 . 7 5 \\ 5 . 6 0 \\ + 6 . 6 5 \\ \hline \end{array}$$

**e.**

$$\begin{array}{r} \$ 1 2 . 9 5 \\ 2 5 . 5 5 \\ 4 1 . 8 0 \\ + 2 6 . 7 0 \\ \hline \end{array}$$

2. Find the total cost of buying the things listed.



\$3.10



\$11.45



\$1.50



\$15.95



\$4.85



\$1.95

**a.** a skirt and a book bag

**b.** a teddy bear, crayons, a pair of scissors, and two pens

**c.** a pen and three pairs of scissors

To find the change, you find the difference between the price and the money given.  
To find any difference, you can:

- **Subtract** the price from the money given, OR
- **Add up** from the price to the money given.

**Example.** A bag costs \$11.25.  
A customer pays with \$20.  
What is his change?

We can add up or subtract.  
Subtracting to find the change often involves *regrouping over many zeros*.

Add up:

+	\$0.75	+	\$8
↘		↘	
\$11.25	\$12.00	\$20.00	

The change is \$8.75.

OR subtract:

	9	9	
1	<del>0</del>	<del>0</del>	10
\$ 2	0	0	0
-	1	1	2
-	1	2	5
-----			
\$	8	7	5

3. Find the difference by counting up.

<p><b>a.</b> \$10 – \$2.65</p> <div style="text-align: center; background-color: #e0ffe0; padding: 5px;"> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">+</td> <td style="border: 1px solid black; width: 60px; height: 20px;"></td> <td style="text-align: center;">+</td> <td style="border: 1px solid black; width: 60px; height: 20px;"></td> </tr> <tr> <td colspan="2" style="text-align: center;">↘</td> <td colspan="2" style="text-align: center;">↘</td> </tr> <tr> <td style="text-align: center;">\$2.65</td> <td style="text-align: center;">\$3.00</td> <td style="text-align: center;">\$10.00</td> <td></td> </tr> </table> </div> <p style="text-align: center;">So, \$10 – \$2.65 = _____</p>	+		+		↘		↘		\$2.65	\$3.00	\$10.00		<p><b>b.</b> \$20 – \$7.50</p> <div style="text-align: center; background-color: #e0ffe0; padding: 5px;"> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">+</td> <td style="border: 1px solid black; width: 60px; height: 20px;"></td> <td style="text-align: center;">+</td> <td style="border: 1px solid black; width: 60px; height: 20px;"></td> </tr> <tr> <td colspan="2" style="text-align: center;">↘</td> <td colspan="2" style="text-align: center;">↘</td> </tr> <tr> <td style="text-align: center;">\$7.50</td> <td style="text-align: center;">\$8.00</td> <td style="text-align: center;">\$20.00</td> <td></td> </tr> </table> </div> <p style="text-align: center;">So, \$20 – \$7.50 = _____</p>	+		+		↘		↘		\$7.50	\$8.00	\$20.00	
+		+																							
↘		↘																							
\$2.65	\$3.00	\$10.00																							
+		+																							
↘		↘																							
\$7.50	\$8.00	\$20.00																							
<p><b>c.</b> \$20 – \$14.45</p> <div style="text-align: center; background-color: #e0ffe0; padding: 5px;"> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">+</td> <td style="border: 1px solid black; width: 60px; height: 20px;"></td> <td style="text-align: center;">+</td> <td style="border: 1px solid black; width: 60px; height: 20px;"></td> </tr> <tr> <td colspan="2" style="text-align: center;">↘</td> <td colspan="2" style="text-align: center;">↘</td> </tr> <tr> <td style="text-align: center;">\$ _____</td> <td style="text-align: center;">\$ _____</td> <td style="text-align: center;">\$ _____</td> <td></td> </tr> </table> </div> <p style="text-align: center;">So, \$20 – \$14.45 = _____</p>	+		+		↘		↘		\$ _____	\$ _____	\$ _____		<p><b>d.</b> \$50 – \$28.35</p> <div style="text-align: center; background-color: #e0ffe0; padding: 5px;"> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">+</td> <td style="border: 1px solid black; width: 60px; height: 20px;"></td> <td style="text-align: center;">+</td> <td style="border: 1px solid black; width: 60px; height: 20px;"></td> </tr> <tr> <td colspan="2" style="text-align: center;">↘</td> <td colspan="2" style="text-align: center;">↘</td> </tr> <tr> <td style="text-align: center;">\$ _____</td> <td style="text-align: center;">\$ _____</td> <td style="text-align: center;">\$ _____</td> <td></td> </tr> </table> </div> <p style="text-align: center;">So, \$50 – \$28.35 = _____</p>	+		+		↘		↘		\$ _____	\$ _____	\$ _____	
+		+																							
↘		↘																							
\$ _____	\$ _____	\$ _____																							
+		+																							
↘		↘																							
\$ _____	\$ _____	\$ _____																							

4. Subtract the dollar amounts.

<b>a.</b>	<b>b.</b>	<b>c.</b>	<b>d.</b>	<b>e.</b>
\$ 5 . 5 0	\$ 1 0 . 9 0	\$ 2 0 . 0 0	\$ 1 0 . 0 0	\$ 5 0 . 0 0
– 2 . 3 5	– 4 . 4 5	– 7 . 2 5	– 6 . 4 5	– 3 4 . 5 5

5. Solve the problems.



\$6.90



\$6.75



\$3.45



\$15.95



\$35.90

**a.** Mark bought two computer mice and paid with a \$20-dollar banknote. What was his change?

**b.** Judy bought a book and a book bag. She paid with \$30. How many dollars and cents did she receive in change?

**c.** Mark bought a microscope and paid with a \$50-dollar banknote. He received \$14.10 as change. Was that correct?

**d.** Mark has \$5.50 saved, and he wants to buy a calculator and a book. How much do they cost total?

**e.** How many calculators can Ernest buy with \$10?

How much more money does Mark need to buy them?

What will his change be from the purchase?

6. Solve the word problems.

a. Dad bought a meal for \$15.55 and a drink for \$2.35 at a restaurant. What was the total bill?

b. Dad paid with a \$50 banknote. How much was his change?

c. You have saved \$15, and you want to buy a toy for \$22.95. How much do you still need to save?

d. Melissa bought a book for \$4.55, a magazine for \$2.30, and a pencil for \$0.85. Find the total cost. What is her change from \$10?

e. John bought two servings of ice cream, coffee, and a sandwich. How much was the total bill?

What was John's change from \$20?

Ice cream	\$2.15
Fruit juice	\$1.45
Soda pop	\$1.55
Sandwich	\$3.95
Coffee	\$1.55

f. Can Mom buy a jacket for \$14.55 and a blouse for \$23.95 with \$40?

If yes, what is her change from that?

If no, how much is she missing?