Mental Math and Money Problems

You can add money amounts in your mind, as well. Add the dollars and the cents separately.	$$1.\underline{20} + $1.\underline{50}$$ $= $2.\underline{70}$	$\$0.\underline{14} + \$1.\underline{20}$ = $\$1.\underline{34}$
If you get more than 100 cents, then those make another dollar.	\$0.70 + \$0.70 = 140 cents = \$1.40	\$0.99 + \$0.06 = 105 cents = \$1.05

1. Find the total cost of buying the things listed. Add mentally if you can.

\$3.10	\$1.00	80 ¢ 50 ¢	
\$1.90	55 ¢ \$2.20	\$20 \$35	
a. scissors and pencils	b. pen and glue	c. crayons, glue, and pencils	
d. eraser and calculator	e. microscope and scissors	f. book bag, pen, and crayons	
g. stapler and glue	h. glue and eraser	i. scissors and stapler	
j. pen, pencils, and crayons	k. calculator, pen, and microscope	l. scissors and eraser	

2. Add up to the next whole dollar.

a.

50¢ + = \$1.00

$$72\phi + _{\underline{}} = $1.00$$

b.

\$2.20 +____= \$3.00

c.

Add up to find the change

To find the change, find the <u>difference</u> between the price and the money given.

Start from the price and add till you reach the amount the customer gives.

First add up to the next whole ten cents.

Then add up to the next whole dollar (if need be).

Lastly add all the differences to find the total change.

Price: \$1.20. Customer gave \$5.

differences \rightarrow 80 ¢ \$3

Change: \$3.80

Price: \$3.37. Customer gave \$5.

differences \rightarrow 3 ¢ 60 ¢ \$1

Change: \$1.63

3. Find the total change.

a. Price: \$1.80. Customer gave \$5.

\$1.80 \$2.00 \$5.00

Change: \$_____

c. Price: \$2.19. Customer gave \$5.

\$2.19 \$2.20 \$3.00 \$5.00

Change: \$_____

b. <u>Price</u>: \$3.26. Customer gave \$4.

\$3.26 \$3.30 \$4.00

Change: \$_____

d. Price: \$0.82. Customer gave \$5.

\$0.82 \$0.90 \$1.00 \$5.00

Change: \$_____

4. Find the change.

a. <u>Price</u> : \$0.45. Customer gave \$1.	b. <u>Price</u> : \$2.40. Customer gave \$5.
Change: \$	Change: \$
c. <u>Price</u> : \$3.15. Customer gave \$3.50.	d. <u>Price</u> : \$4.36. Customer gave \$5.
Change: \$	Change: \$
e. Price: \$0.28. Customer gave \$0.50.	
e. <u>F110e</u> . \$0.28. Customer gave \$0.30.	f. <u>Price</u> : \$1.34. Customer gave \$5.
Change: \$	f. Price: \$1.34. Customer gave \$5. Change: \$

5. Solve the word problems.

- **a.** Mary bought ice cream for \$2.20 and water for \$0.70. Find the total bill and her change from \$3.
- **b.** John bought three slices of pizza for \$1.15 each. Find the total bill and his change from \$5.
- c. If you have \$3, can you buy two boxes of crayons for \$1.40 each?

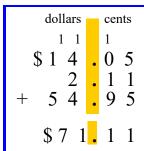
 If not, find how much more you would need.

 If yes, find your change if you buy them.
- d. If you have \$5, can you buy a calculator, a stapler, and a pen (see problem 1)?

 If not, find how much more you would need.

 If yes, find your change if you buy them.

Solving Money Problems



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.

b.

c.

d.

2. Find the total cost of buying the items listed. Line up the numbers carefully for adding.

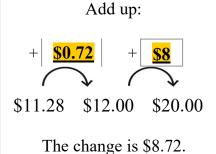


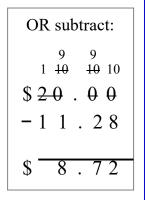
To find the change, you find the <u>difference</u> between the price and the money given. To find any difference, you can:

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

Example. A bag costs \$11.28. A customer pays with \$20. What is his change?

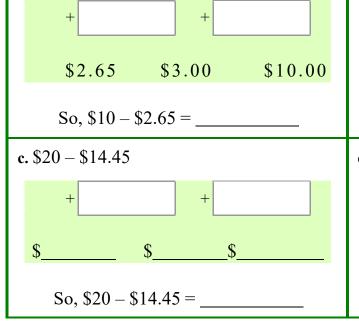
We can add up or subtract. Subtracting to find the change often involves regrouping over many zeros.

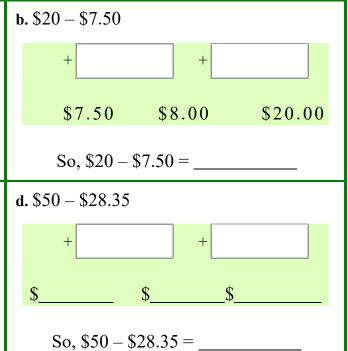




3. Find the difference by counting up.

a. \$10 - \$2.65





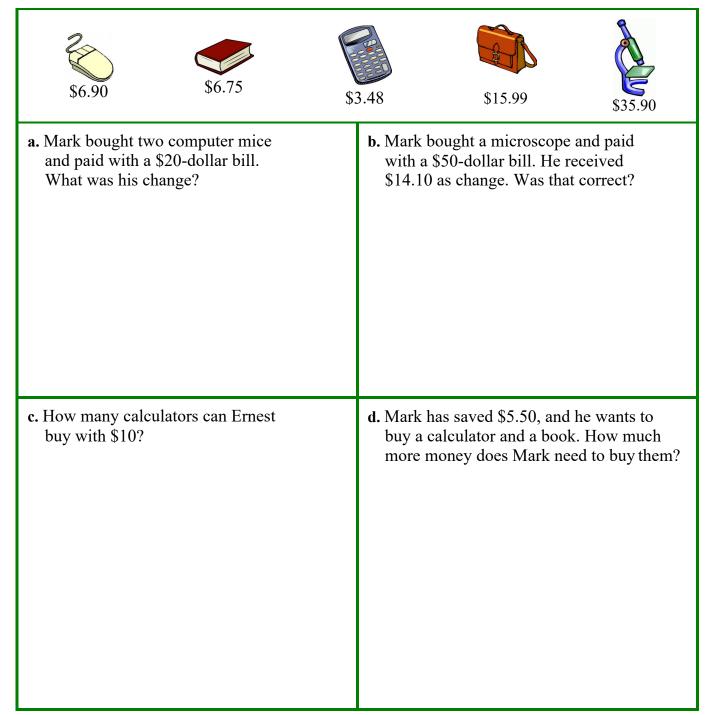
4. Subtract the dollar amounts. Be careful with the regrouping over many zeros!

$$$10.90$$
 b. $$20.00$ c. $$10.00$ d. $$50.00$ - 4.45 - 7.29 - 6.44 - 34.56

$$$10.90$$
 b. $$20.00$ c. $$10.00$ d. $$50.00$ - 4.45 - 7.29 - 6.44 - 34.56

Example The price was \$5.65. A customer paid with \$20 and got back \$14.55. Was that correct change?	1 1 1 \$1 4 . 5 5
We add the price and the change and check if we get \$20:	+ 5.65
No, it was 20 cents too much.	\$20.20

5. Solve the problems.



6.	Solve	the	word	prob	lems.

5. Solve the word problems.		
a. Dad bought a meal for \$15.55 and a drink for \$2.39 at a restaurant. What was his bill?	b. Dad paid with a \$50 What was his chang	
	· c #2.20	
c. Melissa bought a book for \$4.55, a magaz and a pencil for \$0.85. What is her change		
		1
d. John bought two ice creams, coffee, and What was John's change from \$20?	l a sandwich.	Ice cream \$2.15 Fruit juice \$1.45
		Sandwich \$3.98
		Omelet \$4.50 Coffee \$1.55
		1
C M 1 ' 1 (C 01455 1 11	C	
e. Can Mom buy a jacket for \$14.55 and a bl	ouse for \$23.95 with \$40?	
If yes, what is her change from that? If no, how much is she missing?		