

# Time versus Money

You need: a classmate

ACTIVITY

Note: Currency modified, November 2007

The supermarket where Nan and Ben do the family shopping rounds the total amount owing at the checkout if you pay with cash. For example, if the total is \$10.64, you pay \$10.60. If the total is \$10.67, you would pay \$10.70.



Here is Nan and Ben's till receipt:

**Rounding**

This store uses the following method to round the total of your grocery bill if you are paying in cash.

If your total ends in 5 cents or less, we round down to the nearest 10 cents.

If your total ends in more than 5 cents, we round up to the nearest 10 cents.

Dollar Saver  
More for your money

|                    |      |
|--------------------|------|
| 1. Cream 500 mL    | 1.96 |
| 2. Milk 2 L        | 2.79 |
| 3. Cheese 750 g    | 5.82 |
| 4. Bread           | 1.46 |
| 5. Bananas 700 g   | 2.79 |
| 6. Tomatoes        |      |
| 0.986 kg @ 6.99/kg | 6.89 |
| 7. Coffee 500 g    | 3.72 |
| 8. Luncheon        | 2.65 |
| 9. Eggs            | 2.76 |
| 10. Chips          | 1.59 |
| 11. Mince          | 3.20 |
| 12. Chicken No. 9  | 7.65 |

|                 |              |
|-----------------|--------------|
| <b>Subtotal</b> | <b>43.28</b> |
| <b>Rounding</b> | <b>43.30</b> |
| <b>Tender</b>   | <b>50.00</b> |
| <b>Change</b>   | <b>6.70</b>  |

Operator: Ivan

Thank you for shopping at Dollar Saver.

Nan read the notice about rounding. She looked at their receipt and noticed that they had paid 2 cents more than their groceries actually cost. She and Ben talked about ways of paying the smallest amount possible.



It might be cheaper if we go through the checkout with only one item each time, or we could take them through in groups.

I think we should take through in one go all the items that would be rounded up if they were put through individually. Then we should take through, one at a time, all the items that would be rounded down.

Discuss with a classmate which method you would choose and why.