

## Multiplication and Division Problems

A guy walks into a 7-11 store and selects four items to buy. The clerk at the counter informs the gentleman that the total cost of the four items is \$7.11. He was completely surprised that the cost was the same as the name of the store. The clerk informed the man that he simply multiplied the cost of each item and arrived at the total. The customer calmly informed the clerk that the items should be added and not multiplied. The clerk then added the items together and informed the customer that the total was still exactly \$7.11.

What is the exact cost of each item?

\*\*

Simplify the following expression.

$$\frac{1234567890}{(1234567891)^2 - (1234567890)(1234567892)}$$

Supply your process along with your solution.

\*\*

If it takes a man one hour to dig a hole two meters long, two meters wide, and two meters deep, how long would it take the same man to dig a hole four meters long, four meters wide, and four meters deep, assuming he digs at the same rate of speed.

\*\*