## **EXAMPLE 6 Eating In or Eating Out?**

The list shows the ingredients for six cheeseburgers.

\$2.84 1 1/2 lb hamburger

\$2.99 6 hamburger buns

\$0.90 2 tomatoes

\$0.35 1 onion

6 cheese slices \$2.00

\$0.59 1 head lettuce





a. Estimate the cost per cheeseburger.

b. You can buy a quarter-pound cheeseburger for \$3.49. How much will you save by making six cheeseburgers instead of buying six?

c. Suppose that once a week you make six cheeseburgers instead of buying six. How much will you save in a year?

## **SOLUTION**

a. The cost of the ingredients is

$$2.84 + 2.99 + 0.90 + 0.35 + 2.00 + 0.59 = $9.67.$$

The unit price per cheeseburger is

Unit price = 
$$\frac{\$9.67}{6 \text{ cheeseburgers}} \approx \$1.61.$$

**b.** The cost of buying 6 cheeseburgers is

$$6(3.49) = $20.94.$$

You will save 20.94 - 9.67 = \$11.27.

c. By saving the amount in part (b) once a week for a year, you will save (11.27)(52) = \$586.04.



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You are preparing spaghetti for four people.

\$1.	50	1 hox	x snaghetti

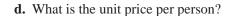
\$1.89 1 lb hamburger

\$3.49 1 jar spaghetti sauce

\$2.89 1 package parmesan cheese

\$0.35 1 onion

\$0.79 1 can sliced mushrooms



e. How much more would you pay to buy 4 spaghetti meals at a restaurant for \$7.95 each?

