

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

The list shows the ingredients for six cheeseburgers.

<b>\$2.84</b>	1 1/2 lb hamburger
<b>\$2.99</b>	6 hamburger buns
<b>\$0.90</b>	2 tomatoes
<b>\$0.35</b>	1 onion
<b>\$2.00</b>	6 cheese slices
<b>\$0.59</b>	1 head lettuce



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

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

- 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

$$(11.27)(52) = \$586.04.$$

**✓ Checkpoint**

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You are preparing spaghetti for four people.

<b>\$1.59</b>	1 box spaghetti
<b>\$1.89</b>	1 lb hamburger
<b>\$3.49</b>	1 jar spaghetti sauce
<b>\$2.89</b>	1 package parmesan cheese
<b>\$0.35</b>	1 onion
<b>\$0.79</b>	1 can sliced mushrooms

- What is the unit price per person?
- How much more would you pay to buy 4 spaghetti meals at a restaurant for \$7.95 each?

