Algebra 1 2.7 
$$12$$
  $7$   $12$ 

Find the percent of change. Solve problems involving percent of change

## Which item had the greatest percent of increase?

Average Retail Prices of Selected Grocery Items							
Grocery Item	Cost in 2000 (\$ per pound)	Cost in 2007 (\$ per pound)					
milk (gallon)	2.79	3.87					
turkey (whole)	0.99	1.01					
chicken (whole)	1.08	1.17					
ground beef	1.63	2.23					
apples	0.82	1.12					
iceberg lettuce	0.85	0.95					
peanut butter	1.96	1.88					

Source: Statistical Abstract of the United States

- **44. MULTIPLE REPRESENTATIONS** In this problem, you will explore patterns in percentages.
  - **a. Tabular** Copy and complete the following table.

1% of	500	is 5.	100% of	is 20.	% of 80 is 20.
2% of		is 5.	50% of	is 20.	% of 40 is 20.
4% of		is 5.	25% of	is 20.	% of 20 is 20.
8% of		is 5.	12.5% of	is 20.	% of 10 is 20.

- **b. Verbal** Describe the patterns in the second and fifth columns.
- $\boldsymbol{c.}$  Analytical  $\,$  Use the patterns to write the fifth row of the table.

$$\frac{20}{100} \ \ \, 20\% \ \ \, abf + ax 6\%$$

$$800ts $150 \qquad 150 \qquad \frac{6}{100}$$

$$150(20) = 30 \qquad \frac{-30}{120} \qquad 120(.06) = 7.20$$

$$120.00 \qquad \frac{7.20}{127.20}$$

\$600 
$$\frac{15}{100}$$
 15% of  $\frac{4}{100}$  4% has  
 $600(.15) = 90$   
 $\frac{600}{-90}$   $\frac{510(.04)}{4530.40}$