Algebra 1 2.7

100

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

increase tay
decrease on Sale
percent
+ sales tax
- discount

Percent = Change (part)

100 Original (whole)

Average Re				
Grocery Item	Cost (n 2000 (\$ per pound)	Cost in 2007 (\$ per pound)	% change	
milk (gallon)	2.79	3.87 + 39%		
turkey (whole)	0.99	1.01 +2 %	1	
chicken (whole)	1.08	1.17 48%	+ .10 - x	
ground beef	1.63	2.23 +37%	+ . 85 100	
apples	0.82	1.12 + 37%	†  -	
iceberg lettuce	0.85	0.95 ⁴12℃	(0) x	
peanut butter	1.96	1.88 - 4%	-96 100	

Source: Statistical Abstract of the United States

Which item had the greatest percent of increase?

- **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	20	is 20.	2-5	% of 80 is 20.
	2% of	250	is 5.	50% of	40	is <mark>20</mark> .	So	% of 40 is 20.
	·4% of	125	i <mark>s 5</mark> .	25% of	08	is <mark>20</mark> .	100	% of 20 is 20.
V	8% of	62.5	is 5.	12.5% of	160	is <mark>20</mark> .	1200	% of 10 is 20.
	16	31.25	5	کرری	32b	20	400	5

- b. Verbal Describe the patterns in the second and fifth columns.
- **c. Analytical** Use the patterns to write the fifth row of the table.