

Algebra 1 2.7

100

Find the percent of change.

Solve problems involving percent of change

increase

decrease

percent

+ sales tax

- discount

tax
on sale

$$\frac{\text{Percent}}{100} = \frac{\text{Change (part)}}{\text{Original (whole)}}$$

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.	25	% of 80 is 20.
2% of	250	is 5.	50% of	40	is 20.	50	% of 40 is 20.
4% of	125	is 5.	25% of	80	is 20.	100	% of 20 is 20.
8% of	62.5	is 5.	12.5% of	160	is 20.	200	% of 10 is 20.
16	31.25	5	6.25	320	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.

