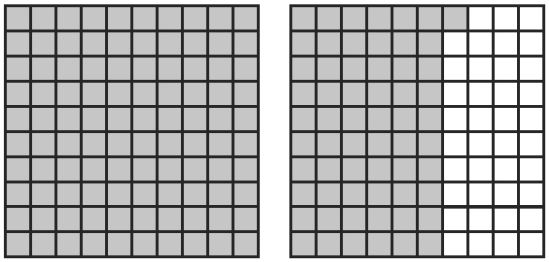
Math 8 Name_____
Date_____

8.1 Understanding Large and Small Percents

Example 1: Determine the Percent Represented on a Grid

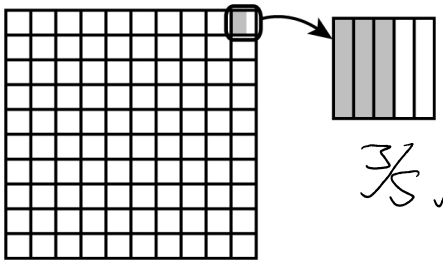
One completely shaded grid represents 100%. What percent does each diagram represent?

a)



161% = 1.61

b)



3/5% OR 0.6%

=0.006

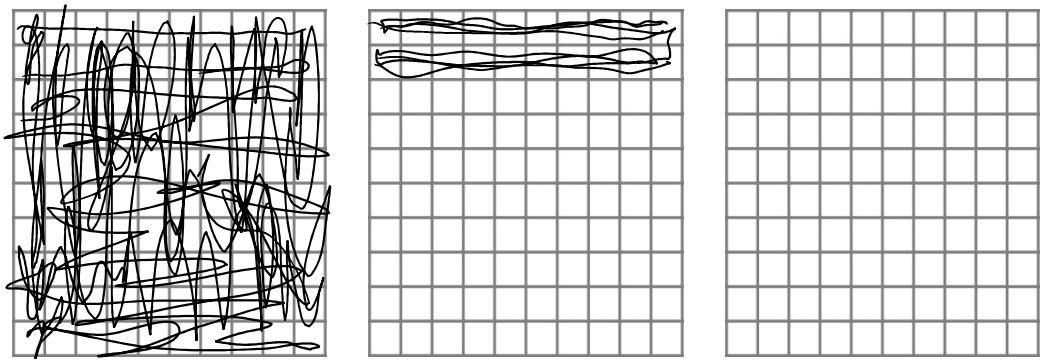
SHOW YOU KNOW: Turn to page 258 and write the percent that each diagram represents.

a) 120% b) 1/2% = 0.5% c) 42 5/8% = 42.625%

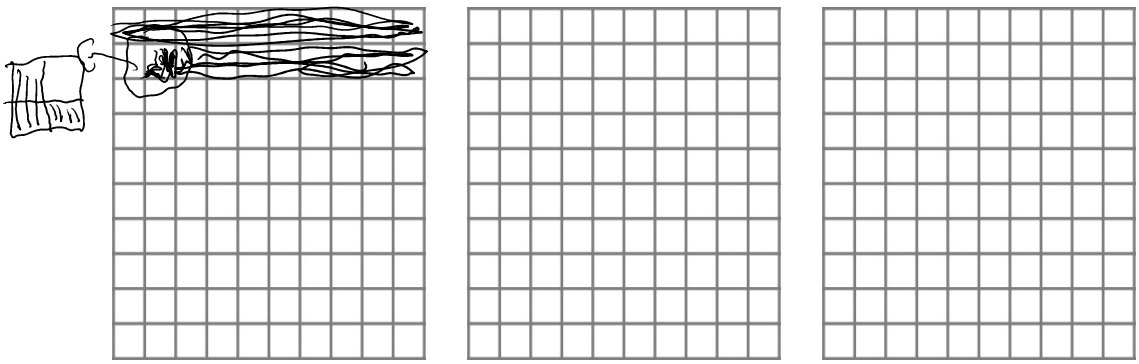
Example 2: Representing Percents on a Grid

Represent the percent in each statement on a grid below.

a) An orange juice container shows that one 250-mL serving contains 120% of the recommended daily value of Vitamin C.



b) A credit card company charges an interest rate of $18\frac{3}{4}\%$ on unpaid balances.

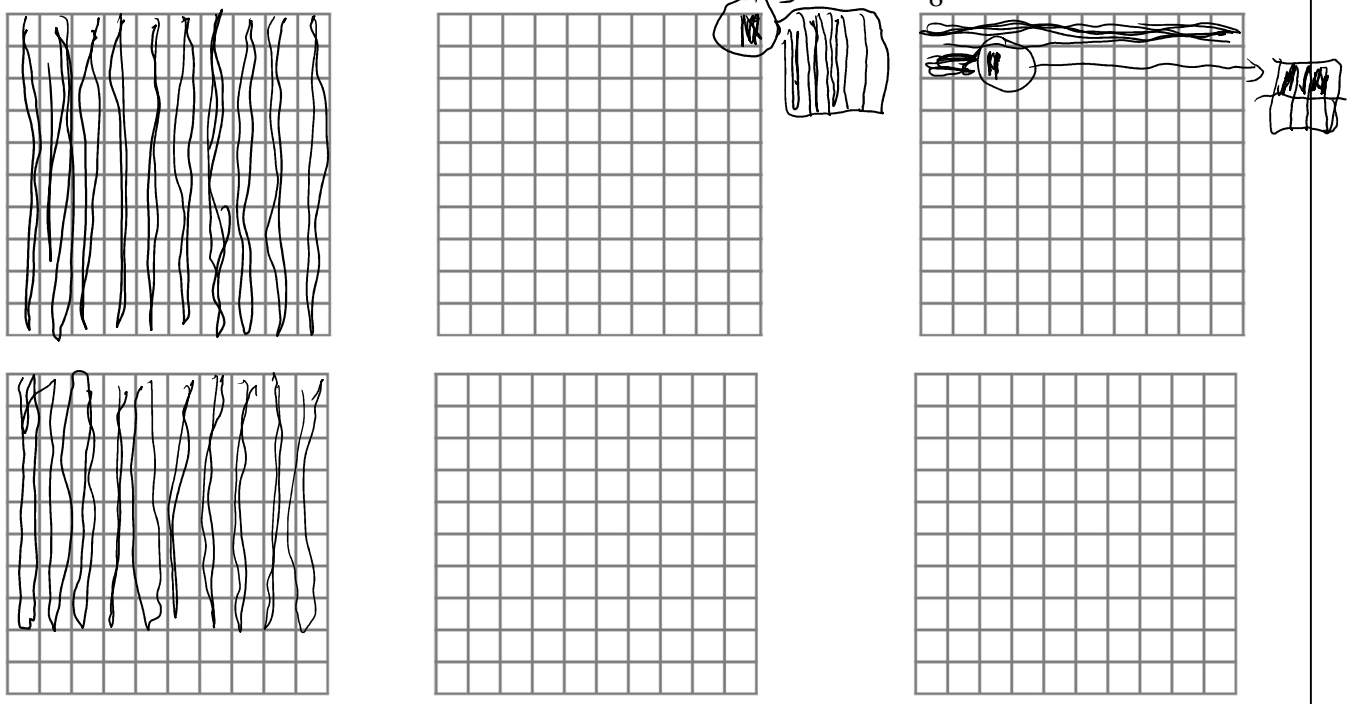


SHOW YOU KNOW: Represent each percent on a grid.

a) 180%

b) 0.6% $\frac{6}{10}\% = \frac{3}{5}\%$

c) $12\frac{3}{8}\%$



Example 3: Determining a Large or Small Percentage

The population of a town 5 years ago was 100,000. Currently the town has a population of 125,000.

a) Determine the percent increase in the population.

increase 25000 $\frac{25000}{100000} = \frac{25}{100} = 25\%$

0.25

b) Determine the current population as a percentage of the old one.

$\frac{125000}{100000} = 125\%$

1.25

A cereal used to cost $9.97 but now goes for $9.89. Determine the percent decrease in the price.

decrease $0.08 $\frac{0.08}{9.97} = 0.008024072$

9.97 − 8.89 $\times 100$

$= 0.8\%$

Practice: pg. 262/ # 1 – 3, 5 – 8, 10, 13, 14, 16