

2.4 Practice Problems**Combined Percent****1) Determine each final value**

a) A starting value of 600 is increased by 20%

b) A starting value of 1000 is decreased by 15%

c) A starting value of \$600 is increased by 20% and then decreased by 15%

d) A starting value of \$5000 is increased by 30% and then decreased by 10%

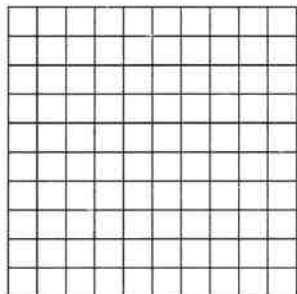
2) A herd of 100 caribou was moved to a new location. The population increased by 10% in the first year and then increased by 20% in the second year.

a) How many caribou were there at the end of the first year?

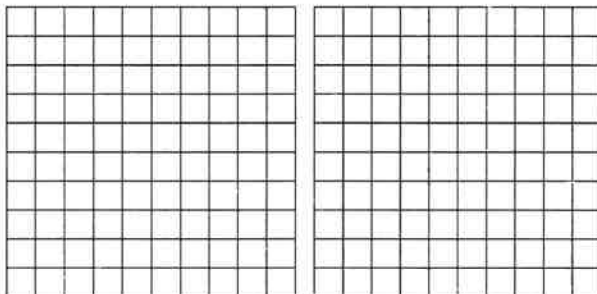
b) How many caribou were there at the end of the second year?

- c) Is the change in caribou population the same as a 30% increase after two years? Use the 100's grids to show why or why not.

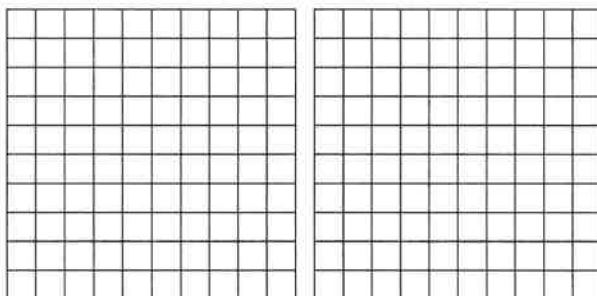
Current population



First year (10% increase)



Second year (20% increase)



- 3) The price of gas is \$1.60/ liter. Next year it is expected to increase by 10% and then decrease by 15% the year after that. What will the price of gas be in two years?