

Name \_\_\_\_\_ Date \_\_\_\_\_

**Description of Investigation and Student Report**  
**Be an Investigator**

A cereal manufacturer needs your help designing two cereal boxes. Use the information about each cereal box and then tell what the dimensions of each cereal box should be. The manufacturer would also like you to name each cereal.

**Information****Cereal Box A**

Box must be 8 inches wide and no deeper than 3 inches.

Box must not be higher than 12 inches.

Box must have a volume of 288 cubic inches.

All measurements must be a whole number of inches.

**Cereal Box B**

Box must be 7 inches wide and no deeper than 3 inches.

Box must not be higher than 12 inches.

Box must have a volume of 210 cubic inches.

All measurements must be a whole number of inches.

Name \_\_\_\_\_ Date \_\_\_\_\_

**Be an Investigator  
Student Report**

**Cereal Box A**

Name of cereal: \_\_\_\_\_

Width: 8 inches

Depth: \_\_\_\_\_

Height: \_\_\_\_\_

Volume: 288 cubic inches

**Cereal Box B**

Name of cereal: \_\_\_\_\_

Width: 7 inches

Depth: \_\_\_\_\_

Height: \_\_\_\_\_

Volume: 210 cubic inches.

This is how I solved each problem: