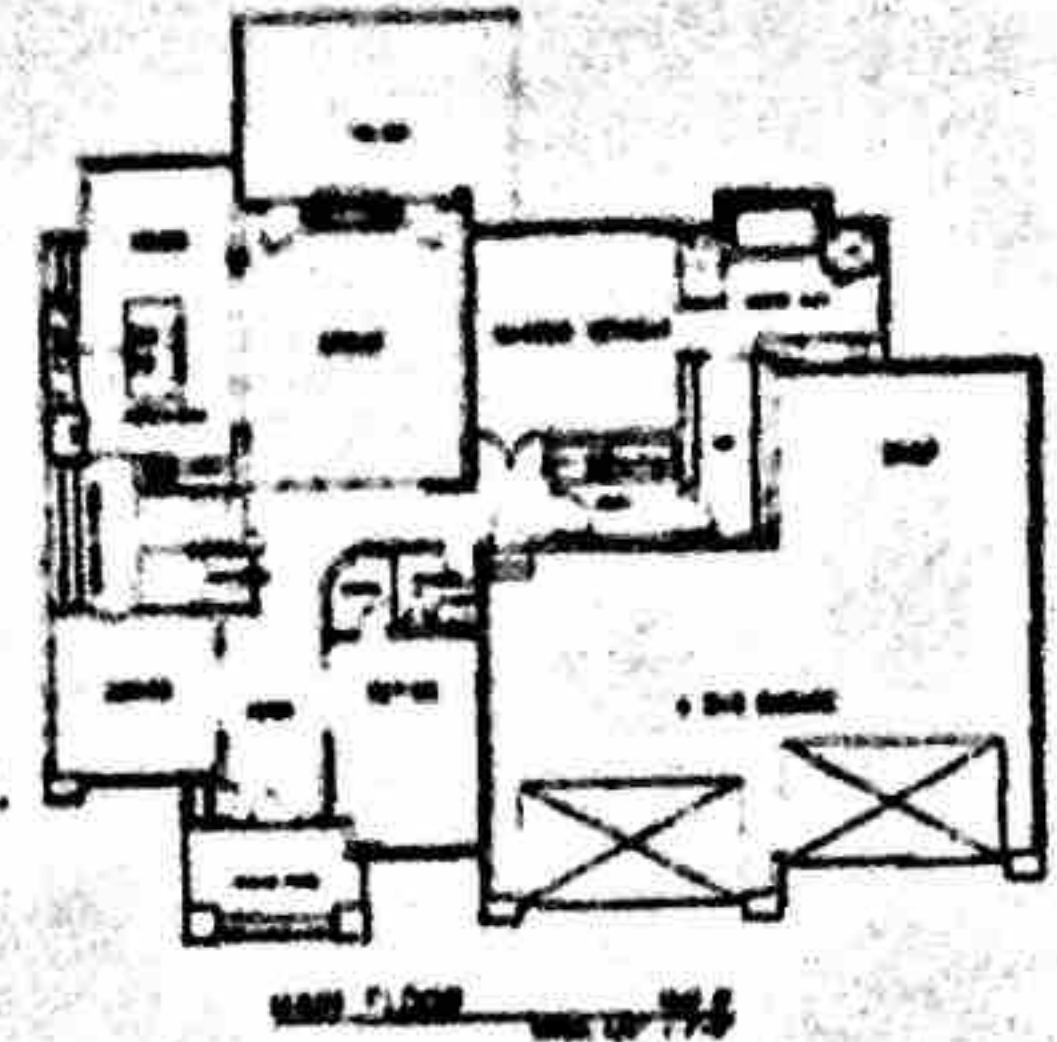


## Scale Drawings

• What is scale factor? \_\_\_\_\_  
 \_\_\_\_\_

• In a scale drawing, the scale factor is the ratio of the measurement on the \_\_\_\_\_  
 to the measurement of the actual \_\_\_\_\_.

• The scale on the blueprint says that  $\frac{1}{4}'' = 1'$ . What does that mean?  
 \_\_\_\_\_  
 \_\_\_\_\_



• Scale drawings are \_\_\_\_\_ to the objects they represent.

• What are some common examples or uses of scale drawings?  
 \_\_\_\_\_

• **Example:** Finding Actual Distances: The scale on a map is 4 in = 1 mi. On the map, the distance between two towns is 20 inches. What is the actual distance? Show all work below.

Work to solve the problem:	Explanation:
$\frac{4in}{1mi} = \frac{20in}{x}$	

### Lesson Review: Try These! ☺

On a map of the Great Lakes area, 2 cm = 45 km. For problem #s 1-4, copy down their distances on the map. Then, determine their actual distances. Show work on the left page of your MSG.

1. Detroit to Cleveland is \_\_\_\_\_ cm on the map, and \_\_\_\_\_ km in real life.
2. Duluth to Nipigon is \_\_\_\_\_ cm on the map, and \_\_\_\_\_ km in real life.
3. Buffalo to Syracuse is \_\_\_\_\_ cm on the map, and \_\_\_\_\_ km in real life.
4. Sault Ste. Marie to Toronto is \_\_\_\_\_ cm on the map, and \_\_\_\_\_ km in real life.
5. Distance from Detroit to State Park is \_\_\_\_\_ km in real life, and \_\_\_\_\_ cm on the map.

