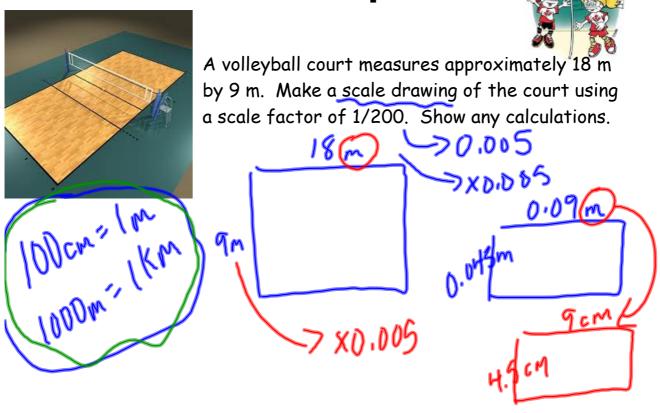
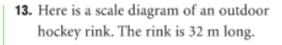
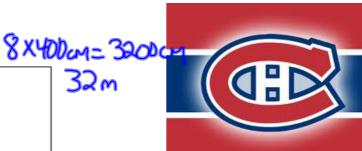
## Warm-Up



The length of a desk is  $1.6 \, \text{m}$ . In a scale drawing that has a scale factor of 2/5 what is the length in cm?







Scale 1:400 0.0025

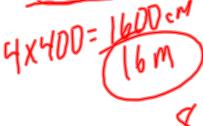
a) Each hockey net is 1.82 m long. Suppose scale diagram. How long would each

you had to include the hockey nets on the hockey net be on the diagram?

1.82 x 0.0025= 0.00455m

0.455cm

b) What is the width of the rink?

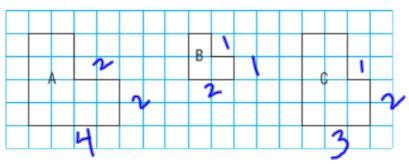


reduction



## SECTION 7.3 SIMILAR POLYGONS

Which pair of polygons below show an enlargement or a reduction? Explain your choice.

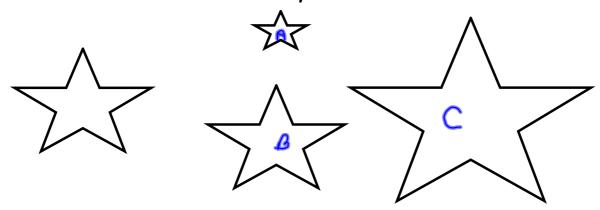


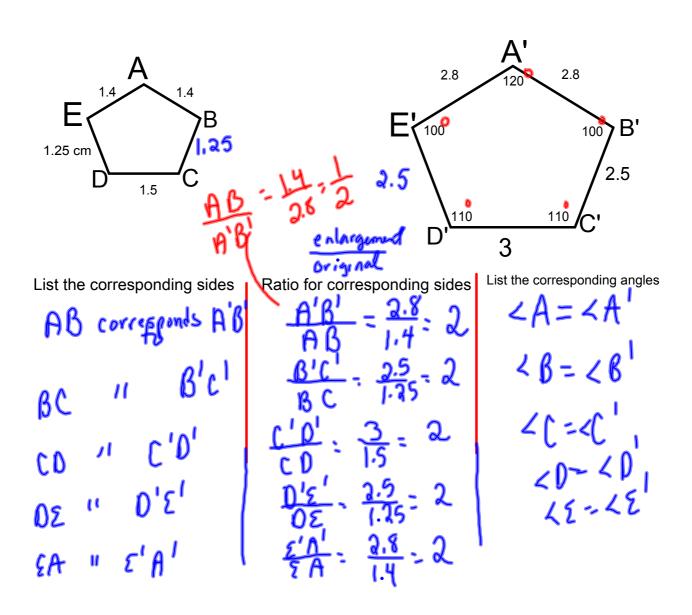


When one polygon is an enlargement or a reduction of another polygon, we say the polygons are similar.

## Similar polygons have:

- 1. the same shape,
- 2. but not necessarily the same size.





Similarity statement

pentagon AEDCB ~ A'E'O'C'B'

## In similar polygons:

- Pairs of corresponding sides have lengths in the same ratio, that is, the lengths are proportional
- Corresponding angles are equal

Give a similarity [ \_\_\_ ] statement

