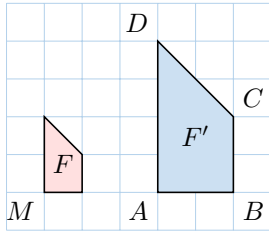# SIMILARITY

A DEFINITIONS
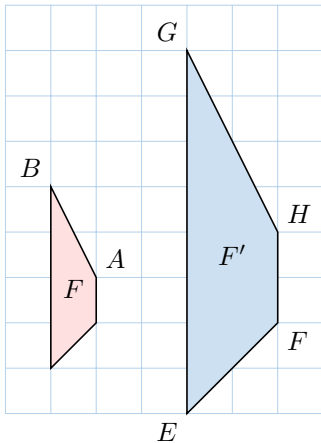
A.1 FINDING ELEMENTS

MCQ 1: The figure F' is an enlargement of the figure F.

Find the vertex that is the image of vertex M.
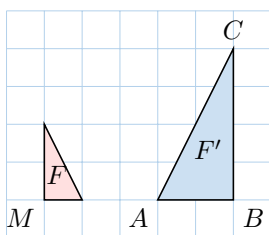
☐ A

☐ B

☐ C

☐ D

MCQ 2: The figure F' is an enlargement of the figure F.

Find the segment that is the image of segment $\overline{AB}$.

☐ $\overline{EF}$

☐ $\overline{FG}$

☐ $\overline{GH}$

☐ $\overline{HE}$

MCQ 3: The figure F' is an enlargement of the figure F.
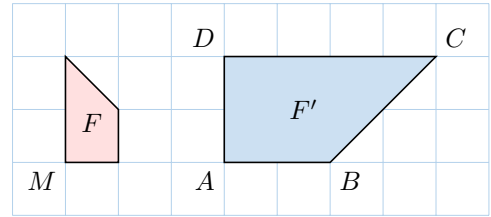

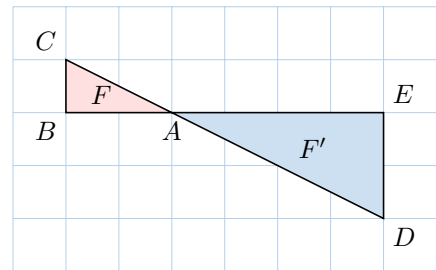
Find the vertex that is the image of vertex M.

☐ A

☐ B

☐ C

MCQ 4: The figure F' is an enlargement of the figure F.

Find the vertex that is the image of vertex M.

☐ A

☐ B

☐ C

☐ D

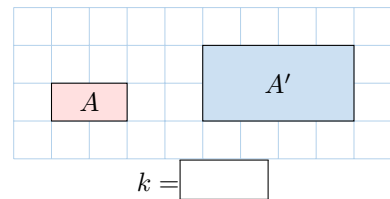**MCQ 5:** The figure F' is an enlargement of the figure F.

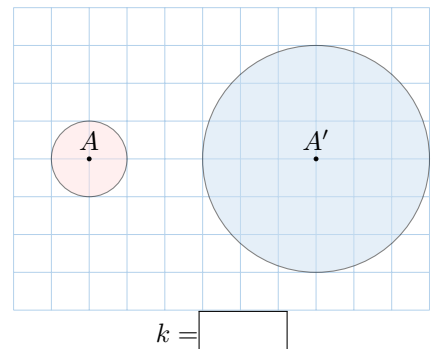Find the segment that is the image of segment $\overline{AB}$.

☐ $\overline{AE}$

☐ $\overline{AD}$

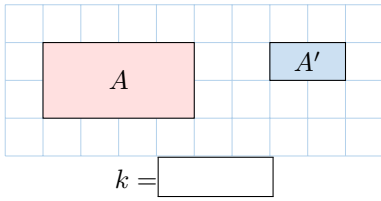☐ $\overline{DE}$

A.2 FINDING THE SCALE FACTOR

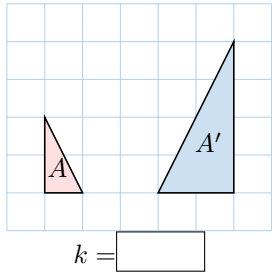**Ex 6:** Find the scale factor for this enlargement.

$k = \boxed{}$

Ex 7: Find the scale factor for this enlargement.

$k = \boxed{}$

Ex 8: Find the scale factor for this reduction.

$$k = \boxed{}$$

Ex 9: Find the scale factor for this enlargement.

$$k = \boxed{}$$

Ex 10: Find the scale factor for this enlargement.

$$k = \boxed{}$$
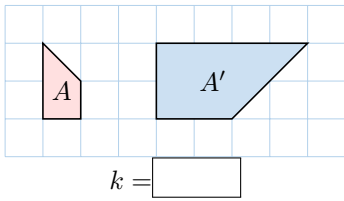
Ex 11: Find the scale factor for this enlargement.

$$k = \boxed{}$$
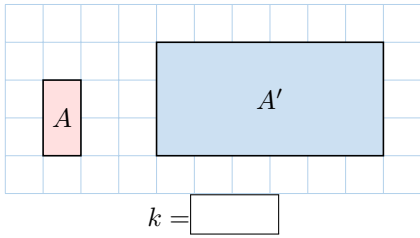
Ex 12: Find the scale factor for this reduction.

$$k = \boxed{}$$
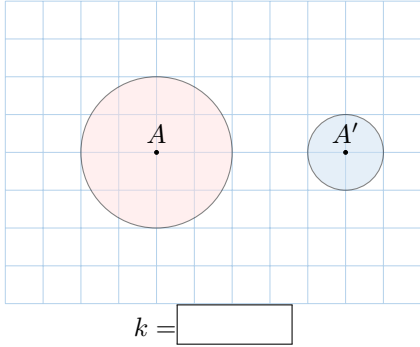
B SIMILAR FIGURES

B.1 FINDING UNKNOWN LENGTH

Ex 13: The figures F and F' are similar. Find x.

$$x = \boxed{}$$
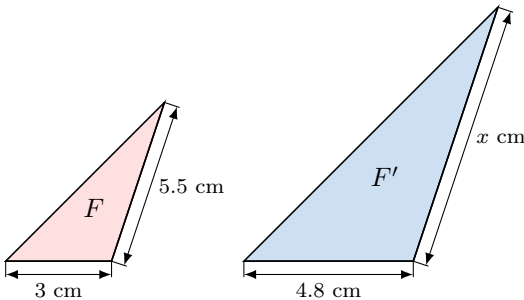
Ex 14: The figures F and F' are similar. Find x.

$$x = \boxed{}$$
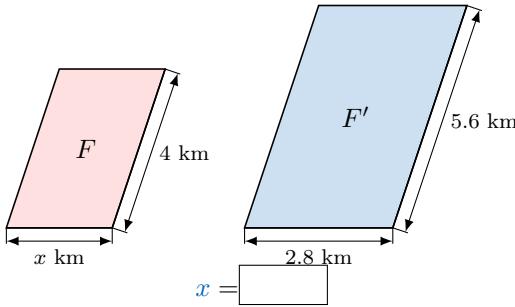
Ex 15: The figures F and F' are similar. Find x.

$$x = \boxed{}$$
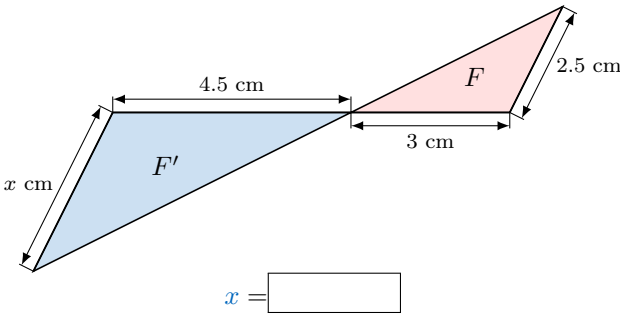
Ex 16: The figures F and F' are similar. Find x.

$$x = \boxed{}$$
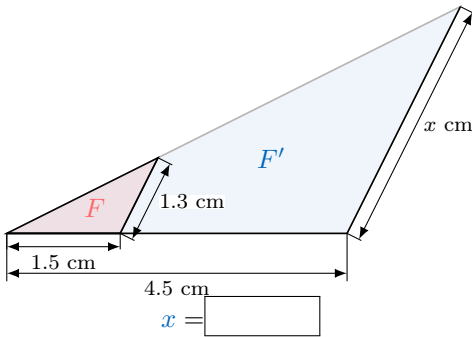
Ex 17: The figures F and F' are similar. Find x.

$$x = \boxed{}$$
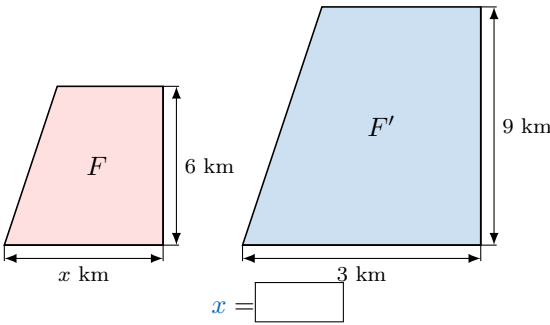
B.2 DETERMINING SHAPE SIMILARITY

MCQ 18: Are all rectangles similar?

☐ True

☐ False

MCQ 19:   Are all squares similar?

☐ True

☐ False

MCQ 20:   Are all circles similar?

☐ True

☐ False

MCQ 21:   Are all rhombuses similar?

☐ True

☐ False