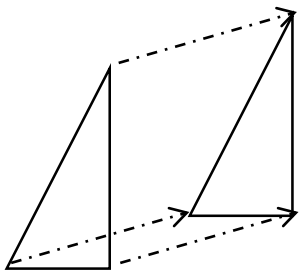
Name _____ Date _____

Name the Transformation

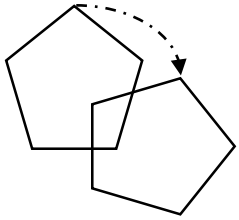
Determine which type of transformation is represented in each box.

1



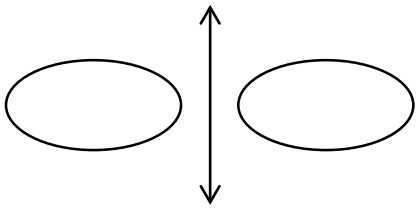
- ❑ Dilation
- ❑ Rotation
- ❑ Translation
- ❑ Reflection

2



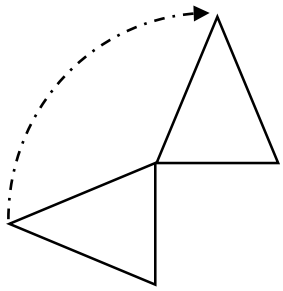
- ❑ Dilation
- ❑ Rotation
- ❑ Translation
- ❑ Reflection

3



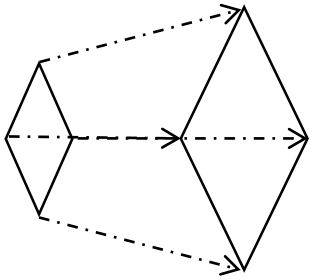
- ❑ Dilation
- ❑ Rotation
- ❑ Translation
- ❑ Reflection

4



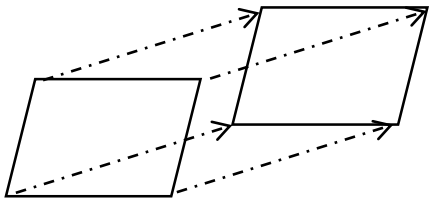
- ❑ Dilation
- ❑ Rotation
- ❑ Translation
- ❑ Reflection

5



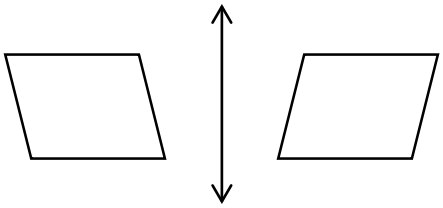
- ❑ Dilation
- ❑ Rotation
- ❑ Translation
- ❑ Reflection

6



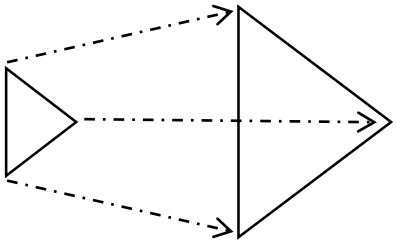
- ❑ Dilation
- ❑ Rotation
- ❑ Translation
- ❑ Reflection

7



- ❑ Dilation
- ❑ Rotation
- ❑ Translation
- ❑ Reflection

8

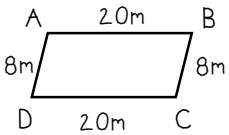


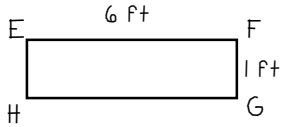
- ❑ Dilation
- ❑ Rotation
- ❑ Translation
- ❑ Reflection

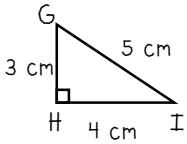
Name _____ Date _____

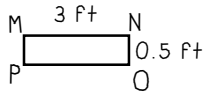
Isometry or Similarity?

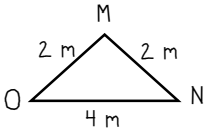
Each figure below has a preimage or image of isometry or similarity. Write the image of each given preimage. Determine whether it is an isometry or similarity.

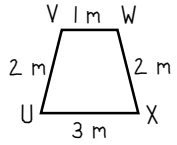


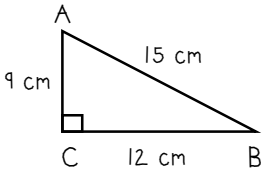


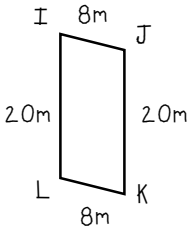


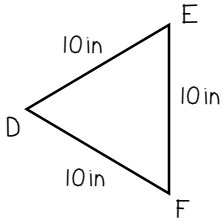


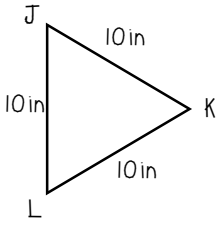


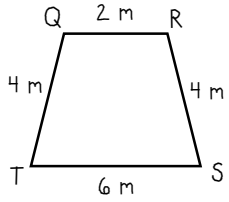


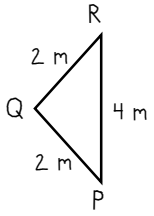












1. ΔABC

2. Quadrilateral $IJKL$

3. Quadrilateral $EFGH$

4. ΔDEF

5. ΔMNO

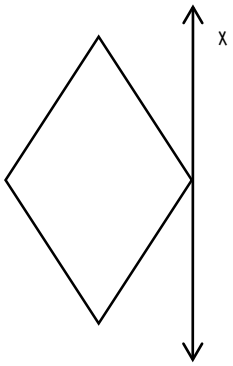
6. Quadrilateral $QRST$

Name _____ Date _____

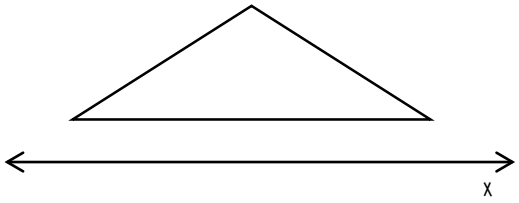
Draw the Reflection

Copy each figure. Use a straightedge to draw the reflection image of each figure over line x.

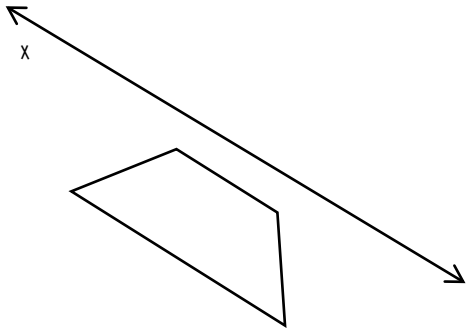
1



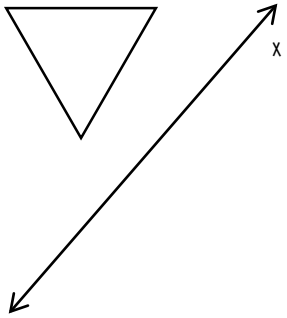
2



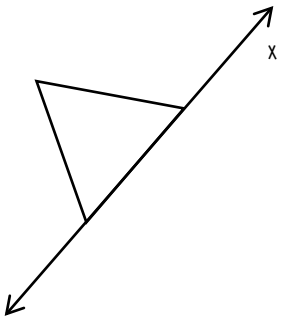
3



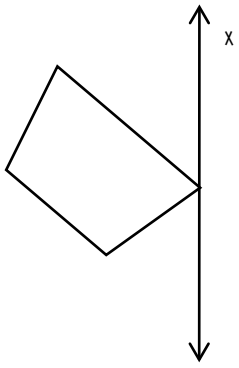
4



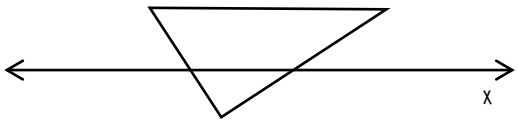
5



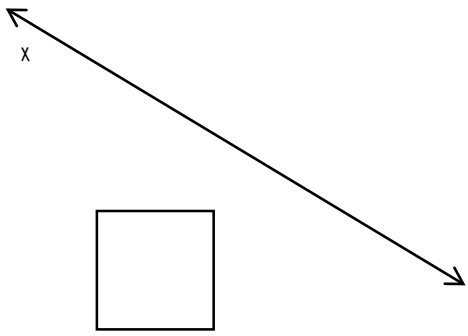
6



7



8

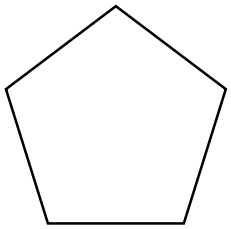


Name _____ Date _____

Line Symmetry or Point Symmetry?

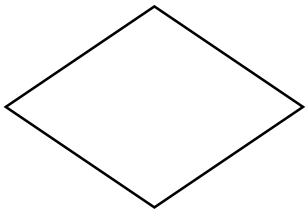
Determine if each figure has line symmetry, point symmetry, or both.

1



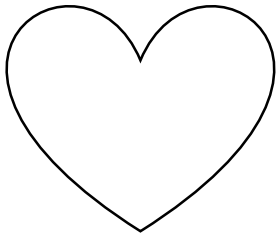
- ❑ Line Symmetry
- ❑ Point Symmetry
- ❑ Line and Point Symmetry

2



- ❑ Line Symmetry
- ❑ Point Symmetry
- ❑ Line and Point Symmetry

3

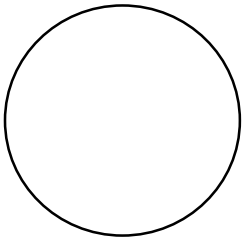


- ❑ Line Symmetry
- ❑ Point Symmetry
- ❑ Line and Point Symmetry

4

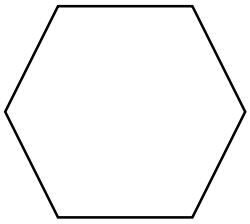
- ❑ Line Symmetry
- ❑ Point Symmetry
- ❑ Line and Point Symmetry

5



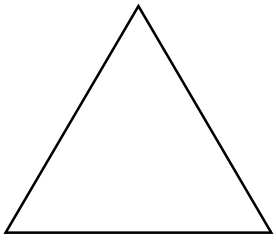
- ❑ Line Symmetry
- ❑ Point Symmetry
- ❑ Line and Point Symmetry

6



- ❑ Line Symmetry
- ❑ Point Symmetry
- ❑ Line and Point Symmetry

7



- ❑ Line Symmetry
- ❑ Point Symmetry
- ❑ Line and Point Symmetry

8

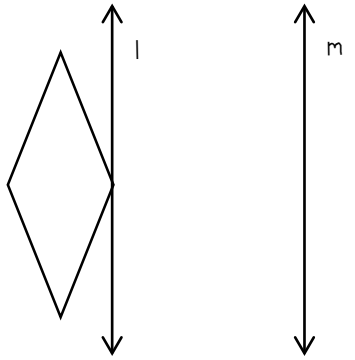
- ❑ Line Symmetry
- ❑ Point Symmetry
- ❑ Line and Point Symmetry

Name _____ Date _____

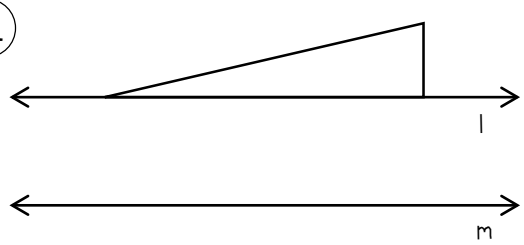
Draw the Translation

Draw the translation image of each figure with respect to l and m. Shade the translation image to identify it.

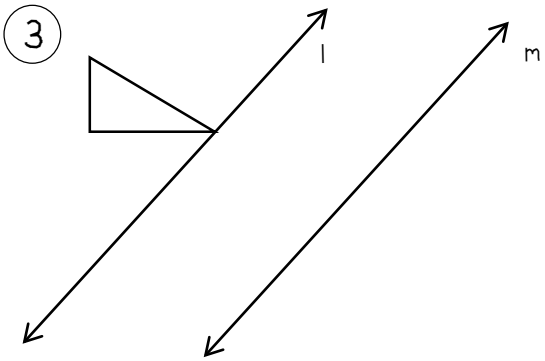
1



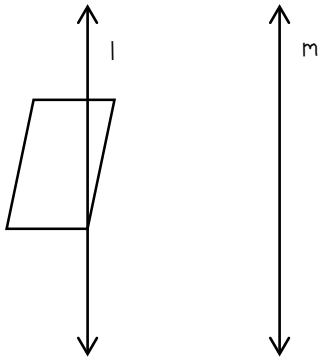
2



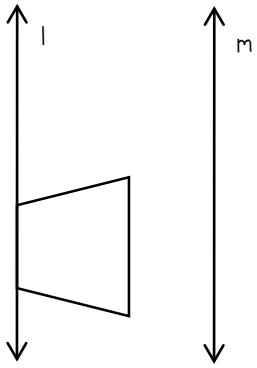
3



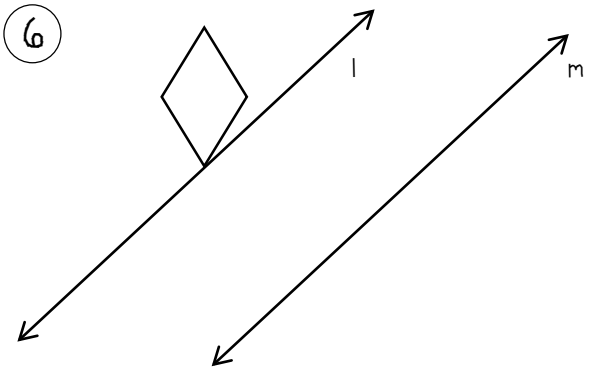
4



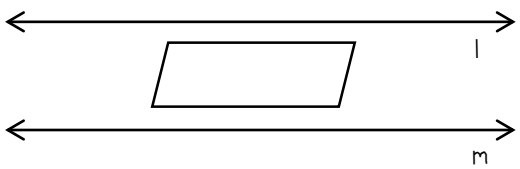
5



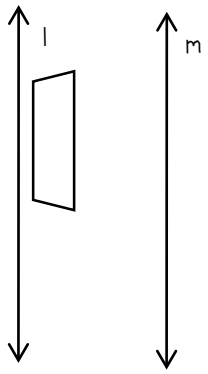
6



7



8

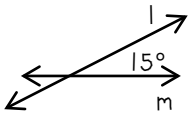


Name _____ Date _____

Angle of Rotation

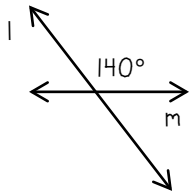
Use the angle of rotation to find the rotation image with respect to lines l and m.

1



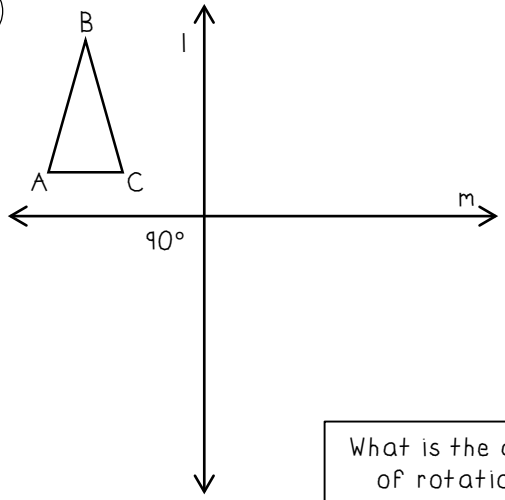
Lines l and m intersect to form a 15°. If an image is rotated over lines l and m the angle of rotation will be ____°.

2



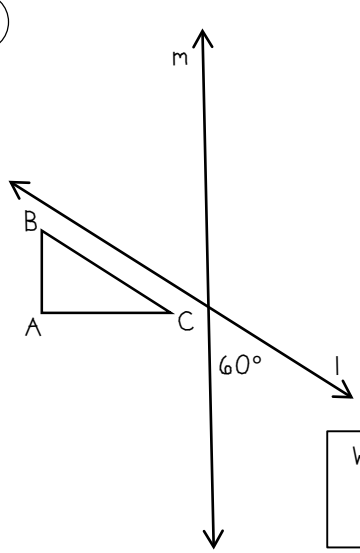
Lines l and m intersect to form a 140°. If an image is rotated over lines l and m the angle of rotation will be ____°.

3



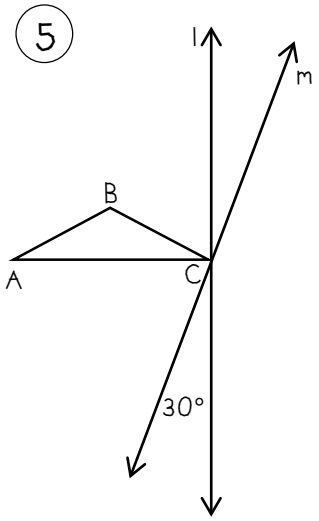
What is the angle of rotation?

4



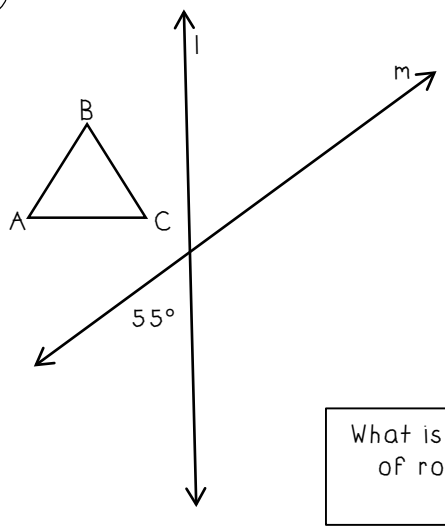
What is the angle of rotation?

5



What is the angle of rotation?

6



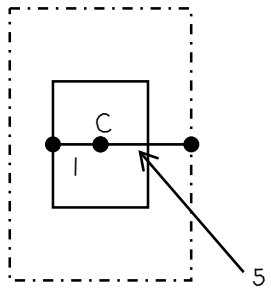
What is the angle of rotation?

Name _____ Date _____

Scale Factor of a Dilation

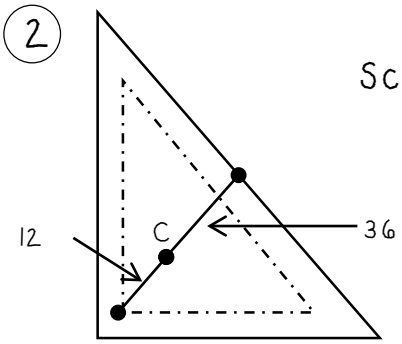
For each figure, a dilation with center C produced the dotted line figure. What is the scale factor for each transformation?

1



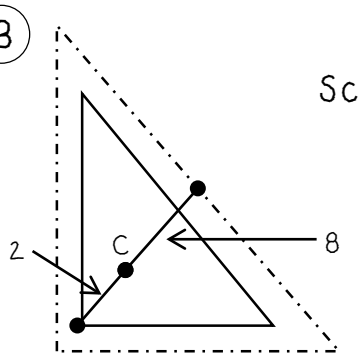
Scale Factor:

2



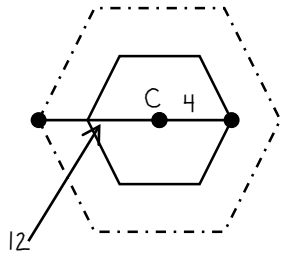
Scale Factor:

3



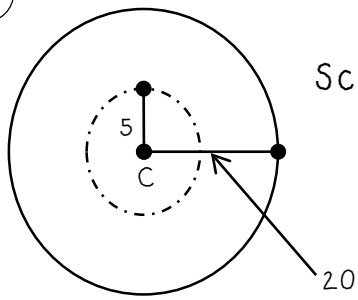
Scale Factor:

4



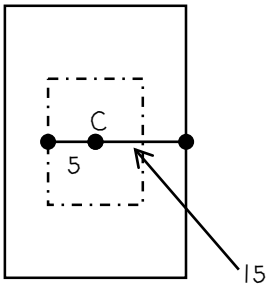
Scale Factor:

5



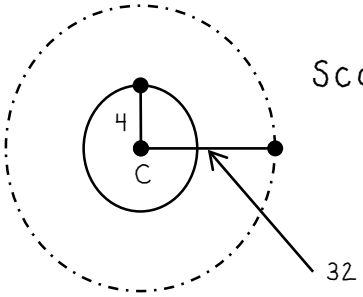
Scale Factor:

6



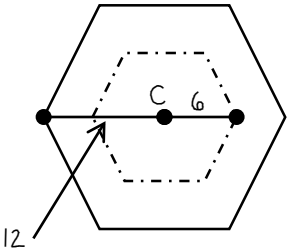
Scale Factor:

7



Scale Factor:

8



Scale Factor: