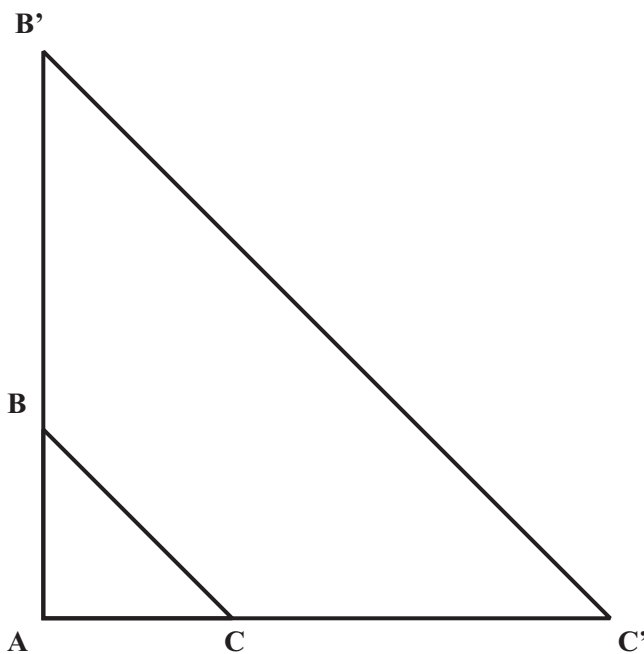**Module 11 Transformations of Shapes**
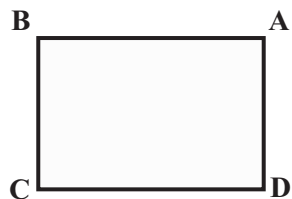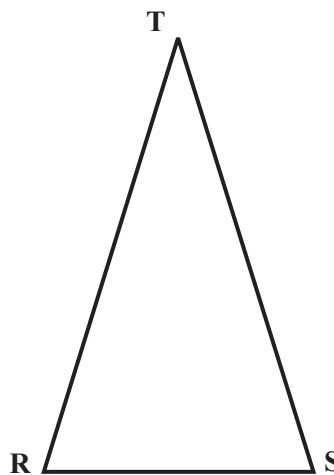**Lesson 3 Dilations**

Set 1

1 $\triangle AB'C'$ is a dilation of $\triangle ABC$. Find the center and scale factor of dilation. Use a metric ruler to measure.

2 Construct a dilation of quadrilateral *ABCD* with center *B* and scale factor three.

B ┌──────────┐ A
  │   │
  │   │
C └──────────┘ D

3 Construct a dilation of the isosceles triangle *RST* with center *T* and scale factor 0.25. Use a metric ruler to measure.

T

R ────────────── S

Set 2

1 △*A'B'C'* is a dilation of △*ABC*. Find the scale factor of dilation.

- *A*(0, 4), *B*(2, 7), and *C*(-4, -1)
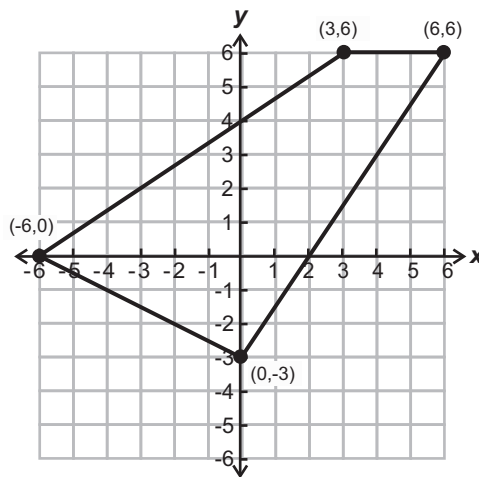- *A*′(0, 16), *B*′(8, 28), and *C*′(-16, -4)

Module 11   Transformations of Shapes
Lesson 3   Dilations

2   Quadrilateral *PQRS* is dilated by the scale factor 0.5 with center (0, 0).
What are the coordinates of the vertices of the dilated image?

P(-3, 0)
Q(-1, -5)
R(1, -2)
S(4, 1)

3   Perform a dilation of the quadrilateral with scale factor $\frac{2}{3}$ and with center (0,0).

4   Perform a dilation of the triangle with scale factor 2 and with center (0,0).