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1. A triangle with an area of 9 cm² is dilated by a scale factor of 10. What is the area of the dilated triangle?

2. A square is dilated by a scale factor of 3 resulting in a square with a perimeter of 24 inches. What is the side length of the preimage square?

3. Rectangle ABCD is dilated by a scale factor of $\frac{1}{3}$. Rectangle A'B'C'D' has an area of 36 cm². What is the area of rectangle ABCD?

Use the image below to answer the following questions.



4. Locate the center of dilation by finding the intersection of the lines connecting each preimage point with its image point.

5. Identify the scale factor.



4. Locate the center of dilation by finding the intersection of the lines connecting each preimage point with its image point



Scale factor M se compare si when

Center of dilation is located at (-4, 4)

5. Identify the scale factor. Scale factor is 2

Key