Name: _____   Date _____

Topic : <u>Dilations Five Pack - Worksheet 1</u>

1. Under a dilation of scale factor 2 with the center at the origin, if S (6, 7), what will be the coordinates of the point S'?

2. What is the scale factor of the dilation (with center at the origin) if point E (5, 3) becomes E' (15, 9)?

3. Under a dilation of scale factor 5 with the center at the origin, if M (3, 6), what will be the coordinates of the point M'?

4. What is the scale factor of the dilation (with center at the origin) if point H (4, 6) becomes H' (24, 36)?

5. Under a dilation of scale factor 4 with the center at the origin, if J (2, 3), what will be the coordinates of the point J'?

6. What is the scale factor of the dilation (with center at the origin) if point U (5, 7) becomes U' (25, 35)?

7. Under a dilation of scale factor 7 with the center at the origin, if K (5, 6), what will be the coordinates of the point K'?

8. What is the scale factor of the dilation (with center at the origin) if point A (4, 5) becomes A' (16, 20)?

9.   Identify the graph shows Dilations is true or false.   **10.**