

Name: \_\_\_\_\_

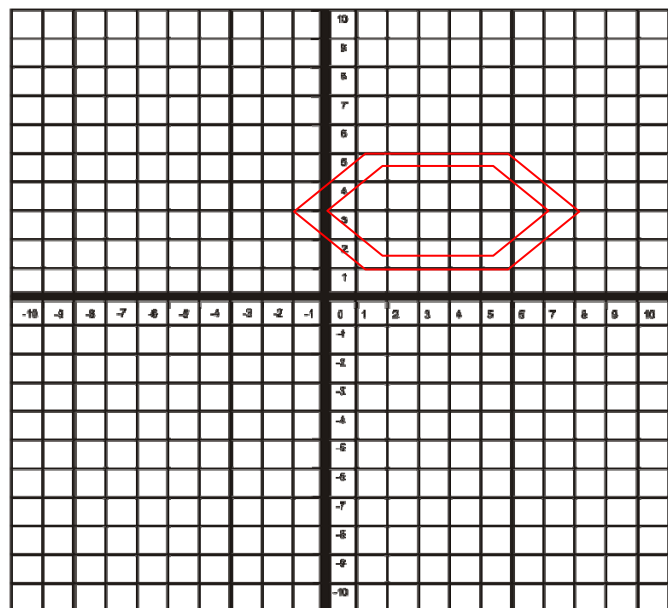
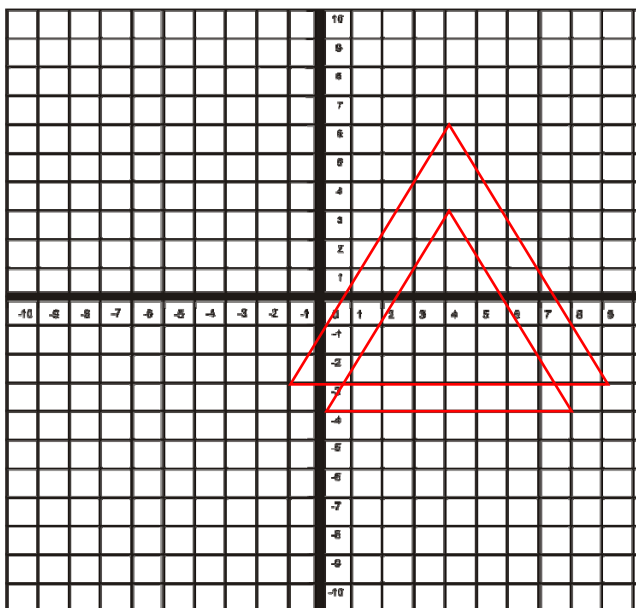
Date \_\_\_\_\_

Topic : Dilation and similarity - Worksheet 1

- Under a dilation of scale factor 3 with the center at the origin, if C (6, 9), what will be the coordinates of the point C'?
- What is the scale factor of the dilation (with center at the origin) if point P (4, 3) becomes P' (8, 6)?
- Under a dilation of scale factor 4 with the center at the origin, if A (3, 5), what will be the coordinates of the point A'?
- What is the scale factor of the dilation (with center at the origin) if point N (6, 7) becomes N' (24, 28)?
- Under a dilation of scale factor 4 with the center at the origin, if B (4,5), what will be the coordinates of the point B'?
- What is the scale factor of the dilation (with center at the origin) if point L (8, 4) becomes L' (24, 12)?
- Under a dilation of scale factor 7 with the center at the origin, if B (2, 3), what will be the coordinates of the point B'?
- What is the scale factor of the dilation (with center at the origin) if point G (2, 4) becomes G' (12, 24)?

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

10.



Name: \_\_\_\_\_

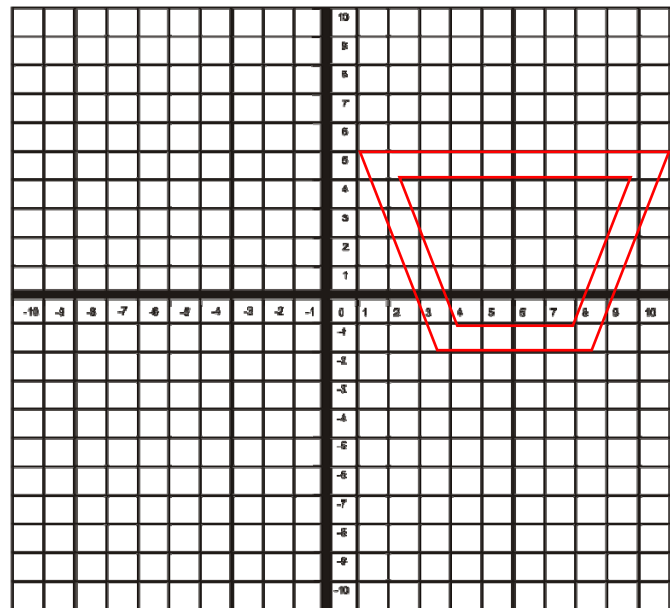
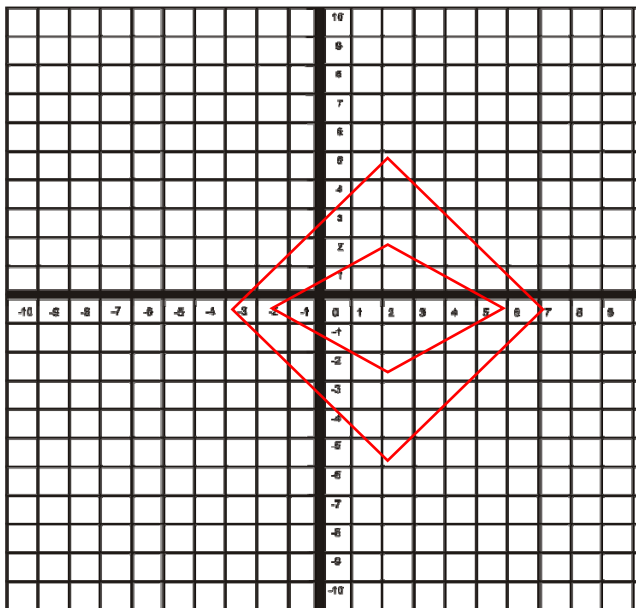
Date \_\_\_\_\_

Topic : Dilation and similarity - Worksheet 2

- Under a dilation of scale factor 4 with the center at the origin, if D (2, 3), what will be the coordinates of the point D'?
- What is the scale factor of the dilation (with center at the origin) if point S (6, 4) becomes S' (18, 12)?
- Under a dilation of scale factor 3 with the center at the origin, if Q (4, 5), what will be the coordinates of the point Q'?
- What is the scale factor of the dilation (with center at the origin) if point K (3, 4) becomes K' (9, 12)?
- Under a dilation of scale factor 5 with the center at the origin, if F (3, 4), what will be the coordinates of the point F'?
- What is the scale factor of the dilation (with center at the origin) if point W (5, 2) becomes W' (15, 6)?
- Under a dilation of scale factor 6 with the center at the origin, if C (3, 4), what will be the coordinates of the point C'?
- What is the scale factor of the dilation (with center at the origin) if point H (2, 3) becomes H' (10, 15)?

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

10.



Name: \_\_\_\_\_

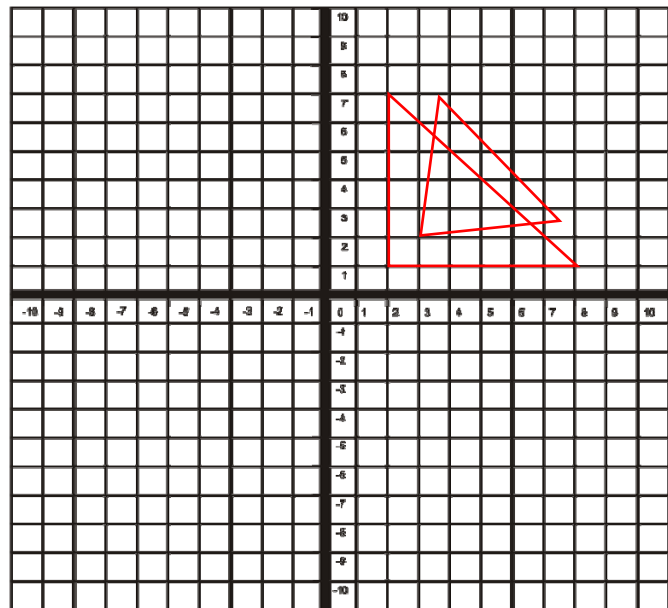
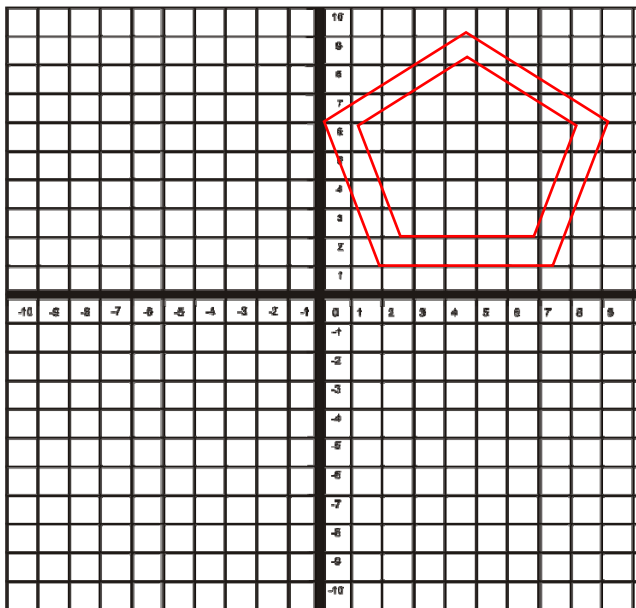
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Topic : Dilation and similarity - Worksheet 3

- Under a dilation of scale factor 3 with the center at the origin, if R (4, 5), what will be the coordinates of the point R'?
- What is the scale factor of the dilation (with center at the origin) if point B (4, 5) becomes B' (16, 20)?
- Under a dilation of scale factor 2 with the center at the origin, if T (3, 4), what will be the coordinates of the point T'?
- What is the scale factor of the dilation (with center at the origin) if point L (3, 5) becomes L' (15, 25)?
- Under a dilation of scale factor 3 with the center at the origin, if E(5, 6), what will be the coordinates of the point E'?
- What is the scale factor of the dilation (with center at the origin) if point W (6, 4) becomes W' (24, 16)?
- Under a dilation of scale factor 5 with the center at the origin, if N (4, 5), what will be the coordinates of the point N'?
- What is the scale factor of the dilation (with center at the origin) if point V (3, 4) becomes V' (21, 28)?

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

10.



Name: \_\_\_\_\_

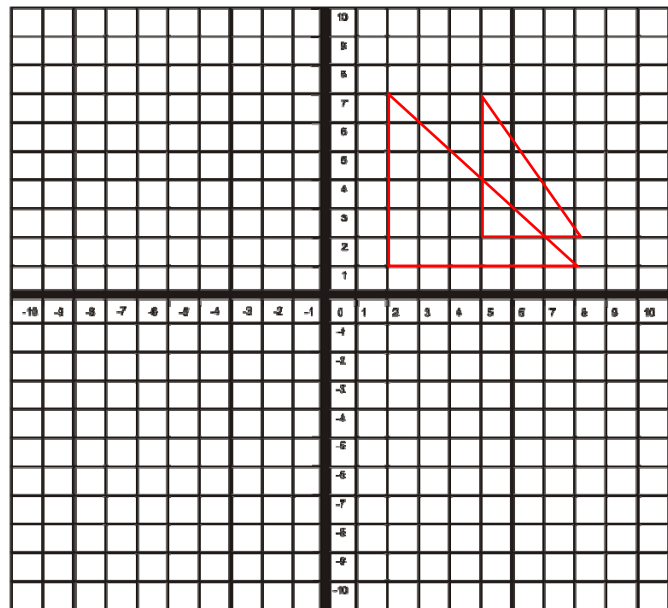
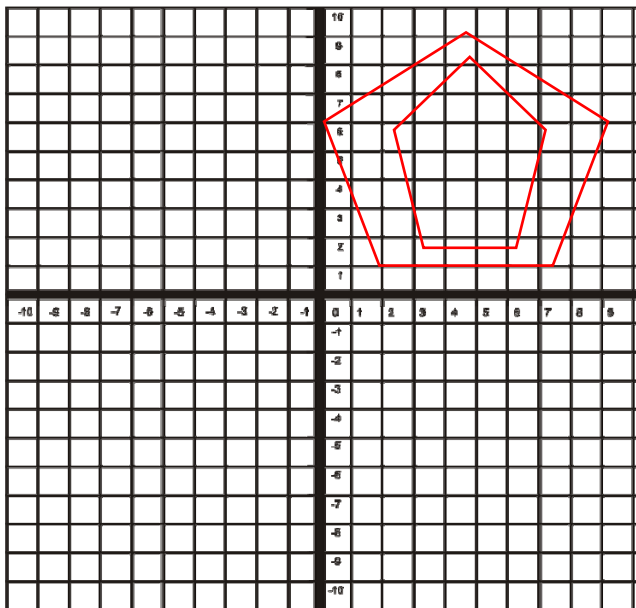
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Topic : Dilation and similarity - Worksheet 4

- 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'?
- What is the scale factor of the dilation (with center at the origin) if point E (5, 3) becomes E' (15, 9)?
- 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'?
- What is the scale factor of the dilation (with center at the origin) if point H (4, 6) becomes H' (24, 36)?
- 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'?
- What is the scale factor of the dilation (with center at the origin) if point U (5, 7) becomes U' (25, 35)?
- 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'?
- 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.



Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Dilation and similarity - Worksheet 5

- Under a dilation of scale factor 5 with the center at the origin, if  $W (2, 6)$ , what will be the coordinates of the point  $W'$ ?
- What is the scale factor of the dilation (with center at the origin) if point  $V (10, 15)$  becomes  $V' (20, 30)$ ?
- Under a dilation of scale factor 3 with the center at the origin, if  $U (2, 7)$ , what will be the coordinates of the point  $U'$ ?
- What is the scale factor of the dilation (with center at the origin) if point  $C (4, 6)$  becomes  $C' (8, 12)$ ?
- Under a dilation of scale factor 4 with the center at the origin, if  $K (4, 6)$ , what will be the coordinates of the point  $K'$ ?
- What is the scale factor of the dilation (with center at the origin) if point  $B (5, 7)$  becomes  $B' (25, 35)$ ?
- Under a dilation of scale factor 7 with the center at the origin, if  $A (5, 6)$ , what will be the coordinates of the point  $A'$ ?
- What is the scale factor of the dilation (with center at the origin) if point  $P (4, 5)$  becomes  $P' (16, 20)$ ?

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

10.

