

124. Transformations: Enlargement

Practice Questions

1. Enlarge the shape $A(1, 1)$, $B(3, 1)$, $C(3, 3)$ by a scale factor of 2 about the origin. Write the new coordinates.
2. Enlarge the shape $A(2, 2)$, $B(4, 2)$, $C(4, 4)$ by a scale factor of 3 about the point $(2, 2)$. Write the new coordinates.
3. Enlarge the shape $A(0, 0)$, $B(2, 0)$, $C(2, 2)$ by a scale factor of 1.5 about the origin. Write the new coordinates.
4. Enlarge the shape $A(1, 1)$, $B(3, 1)$, $C(3, 3)$ by a scale factor of 0.5 about the origin. Write the new coordinates.
5. Enlarge the shape $A(2, 2)$, $B(4, 2)$, $C(4, 4)$ by a scale factor of 2 about the point $(1, 1)$. Write the new coordinates.
6. Enlarge the shape $A(0, 0)$, $B(2, 0)$, $C(2, 2)$ by a scale factor of 4 about the origin. Write the new coordinates.
7. Enlarge the shape $A(1, 1)$, $B(3, 1)$, $C(3, 3)$ by a scale factor of 0.25 about the origin. Write the new coordinates.
8. Enlarge the shape $A(2, 2)$, $B(4, 2)$, $C(4, 4)$ by a scale factor of 1.5 about the point $(3, 3)$. Write the new coordinates.
9. Enlarge the shape $A(0, 0)$, $B(2, 0)$, $C(2, 2)$ by a scale factor of 3 about the origin. Write the new coordinates.
10. Enlarge the shape $A(1, 1)$, $B(3, 1)$, $C(3, 3)$ by a scale factor of 2 about the point $(2, 2)$. Write the new coordinates.

crackmaths

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Scenario Questions

1. A map is enlarged by a scale factor of 2. If a town is at $(3, 4)$ on the original map, where is it on the enlarged map?
2. A photo is enlarged by a scale factor of 1.5. If a corner is at $(2, 2)$, where is it after enlargement?
3. A logo is enlarged by a scale factor of 3 about the point $(1, 1)$. If one point is at $(2, 2)$, where is it after enlargement?
4. A poster is reduced by a scale factor of 0.5. If a corner is at $(4, 6)$, where is it after reduction?
5. A blueprint is enlarged by a scale factor of 4 about the origin. If a point is at $(1, 1)$, where is it after enlargement?
6. A shape is enlarged by a scale factor of 2 about the point $(3, 3)$. If one vertex is at $(4, 4)$, where is it after enlargement?
7. A map is reduced by a scale factor of 0.25. If a town is at $(8, 8)$, where is it after reduction?
8. A photo is enlarged by a scale factor of 1.2 about the point $(2, 2)$. If a corner is at $(3, 3)$, where is it after enlargement?
9. A logo is enlarged by a scale factor of 3 about the origin. If one point is at $(1, 1)$, where is it after enlargement?
10. A shape is reduced by a scale factor of 0.75 about the point $(4, 4)$. If one vertex is at $(5, 5)$, where is it after reduction?

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Practice Questions

1. New coordinates: $A(2, 2), B(6, 2), C(6, 6)$
2. New coordinates: $A(2, 2), B(8, 2), C(8, 8)$
3. New coordinates: $A(0, 0), B(3, 0), C(3, 3)$
4. New coordinates: $A(0.5, 0.5), B(1.5, 0.5), C(1.5, 1.5)$
5. New coordinates: $A(3, 3), B(7, 3), C(7, 7)$
6. New coordinates: $A(0, 0), B(8, 0), C(8, 8)$
7. New coordinates: $A(0.25, 0.25), B(0.75, 0.25), C(0.75, 0.75)$
8. New coordinates: $A(1.5, 1.5), B(4.5, 1.5), C(4.5, 4.5)$
9. New coordinates: $A(0, 0), B(6, 0), C(6, 6)$
10. New coordinates: $A(0, 0), B(4, 0), C(4, 4)$

Scenario Questions

1. Enlarged map position: $(6, 8)$
2. After enlargement: $(3, 3)$
3. After enlargement: $(4, 4)$
4. After reduction: $(2, 3)$
5. After enlargement: $(4, 4)$
6. After enlargement: $(5, 5)$
7. After reduction: $(2, 2)$
8. After enlargement: $(3.2, 3.2)$
9. After enlargement: $(3, 3)$
10. After reduction: $(4.75, 4.75)$

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Answers