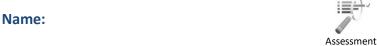
Space Assessment

AC9M7SP03 (Answers)











Score:

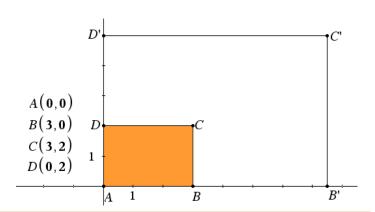
Teacher:

- Q.1. The point P:(2, 1) is reflected in the x axis. Which one of the following represents the reflection?
 - a) (-2, 1)
- b) (-2, -1)
- c) (2, -1)
- d) (1, 2)
- e) (-1, 2)
- Q.2. The point P:(3, 2) is reflected in the y axis. Which one of the following represents the reflection?
 - a) (2, 3)
- b) (-3, 2)
- c) (3, -2)
- d) (-2, 3)
- e) (-2, -3)
- Q.3. The point P:(1, 1) is translated +2 units parallel to the x axis. The coordinates of the new point would be:
 - a) (2, 2)
- b) (1, 2)
- c) (1, 3)
- d) (3, 1)
- e) (3, 3)
- Q.4. The point P:(1, 1) is translated -3 units parallel to the y axis. The coordinates of the new point would be:
 - a) (-1, -2)
- b) (1, 4)
- c) (-2, 1)
- d) (4, 1)
- e) (1, -2)
- Q.5. The point P:(3, 1) is rotated anti-clockwise by 90°. The coordinates of the new point would be:
 - a) (-1, 3)
- b) (1, -3)
- c) (3, -1)
- d) (-3, 1)
- e) (-3, -1)
- Q.6. The point P:(4, 5) is rotated by 180°. The coordinates of the new point would be:
 - a) (-4, -5)
- b) (-4, 5)
- c) (4, -5)
- d) (-5, -4)
- e) (5, 4)

Q.7. The rectangle shown is dilated by a factor of 2.5 from the origin.Write down the coordinates of

A', B', C' and D'

each point:



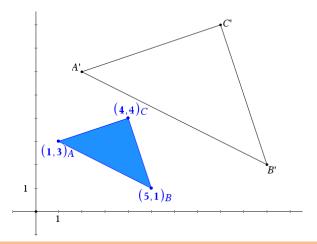
Answer: A' = (0, 0); B' = (7.5, 0); C' = (7.5, 5); D' = (0, 5)



Q.8. The triangle shown is dilated by a factor of 2 from the origin.

Write down the coordinates of each point:

A', B', and C'



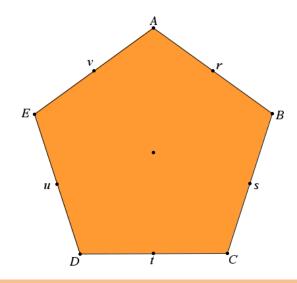
Answer: A' = (2, 6); B' = (10, 2); C' = (8, 8)

Q.9. ABCDE is a regular pentagon, r,s,t,u and v are midpoints on each side.

Identify each of the lines of symmetry for this regular pentagon.

Example:

 \overline{Et} represents the line from E to t.



Answer: \overline{At} , \overline{Bu} , \overline{Cv} , \overline{Dr} , \overline{Es} .

- Q.10. How many axes of symmetry exists for a regular dodecagon (12 sided) figure?
 - a) 3
- b) 6
- c) 12
- d) 18
- e'

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