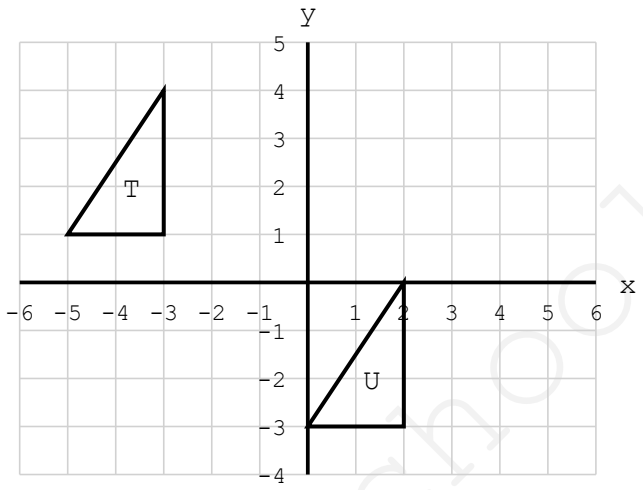
# Coordinates & Graphs: Medium Practice Paper 5

Q1. Triangle T is translated onto triangle U. Which description fits the translation?




A. 4 right and 5 down

B. 5 left and 4 up

C. 5 right and 4 down

D. 5 right and 4 up

E. 4 left and 5 down

Q2. The point (5, −2) is reflected in the y-axis. What are the coordinates of its image?

A. (5, 2) B. (−5, 2) C. (2, −5) D. (−2, 5) E. (−5, −2)

Q3. What are the coordinates of the midpoint of the line joining (−5, 2) and (3, 8)?

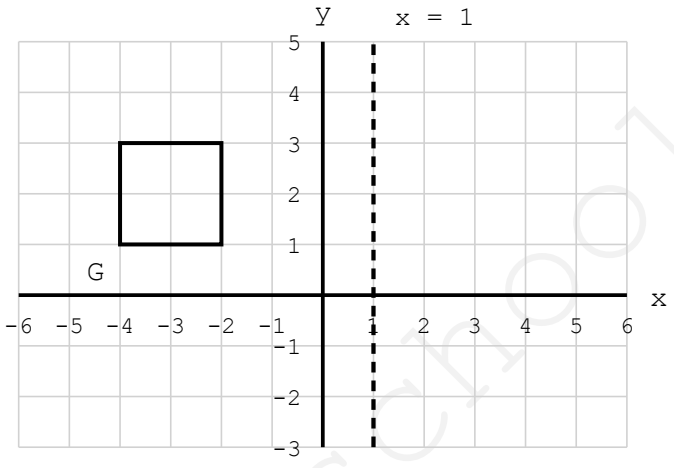
A. (−1, 5) B. (1, 5) C. (−1, 4) D. (4, 3) E. (−2, 5)

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Q4. M is the midpoint of the line AB. A is (1, 2) and M is (4, 5). What are the coordinates of B?

A. (7, 8)  B. (8, 7)  C. (6, 7)  D. (7, 7)  E. (5, 8)

Q5. The shape is reflected in the dashed mirror line x = 1. What are the coordinates of the image of corner G?




A. (4, 1)  B. (5, 1)  C. (6, 1)  D. (4, 3)  E. (6, 3)

Q6. A counter at (−2, −4) is moved 3 squares left and 6 squares up. Where does it finish?

A. (1, 2)  B. (−5, 2)  C. (−5, −10)  D. (5, 2)  E. (−5, 10)

Q7. How many squares apart are the points (−4, 1) and (−4, 7)?

A. 3  B. 4  C. 6  D. 8  E. 11

Q8. A rectangle has corners at (−3, −2), (5, −2), (5, 3) and (−3, 3). What is its area, in squares?

A. 13  B. 20  C. 26  D. 35  E. 40

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Q9. The point (a, 3) is 5 squares to the left of the point (2, 3). What is the value of a?

A. 7 B. 3 C. −2 D. −3 E. −5

Q10. Which point is the same distance from the origin as the point (0, 6)?

A. (6, 6) B. (−6, 0) C. (3, 3) D. (0, 3) E. (6, −6)

Q11. Points A (1, 2), B (3, 5) and C lie on the same straight line, and each step from one point to the next is the same. What are the coordinates of C?

A. (5, 7) B. (5, 8) C. (6, 8) D. (4, 8) E. (6, 7)

Q12. Two corners of a square are (2, 1) and (2, 5), and the square lies to the right of that side. What are the coordinates of the other two corners?

A. (6, 1) and (6, 5)

B. (4, 1) and (4, 5)

C. (2, 9) and (6, 9)

D. (6, 1) and (2, 5)

E. (5, 1) and (5, 5)

Q13. In which of these is the point plotted in the region where x is positive and y is negative?

A. (4, 7) B. (−4, 7) C. (−4, −7) D. (4, −7) E. (−7, 4)

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Q14. A shape is reflected in the x-axis. Which of these does NOT change?

A. The sign of every y-coordinate

B. Which side of the x-axis the shape is on

C. The size of the shape

D. Whether each corner is above or below O

E. The position of the shape

Q15. On a treasure map the hut is at (−3, 4) and the well is at (5, 4). The chest is buried exactly halfway between them. Where is the chest?

A. (1, 4)  B. (2, 4)  C. (1, 8)  D. (4, 4)  E. (8, 4)

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