SAT Math Practice

Topic: Coordinate Geometry

Instructions

Solve the following problems related to coordinate geometry. Show all work clearly. For multiple-choice questions, circle the correct answer. For grid-in questions, fill in the grid with your answer.

Practice Problems

1. Find the distance between the points $(2, 3)$ and $(5, 7)$.

   (a) 5
   (b) 6
   (c) 4
   (d) 7

2. Find the midpoint of the segment joining the points $(4, 6)$ and $(10, 2)$.

   (a) $(7, 4)$
   (b) $(6, 4)$
   (c) $(8, 5)$
   (d) $(5, 3)$

3. Find the distance between the points $(-3, 5)$ and $(4, -2)$.

(a) 10

(b) 7

(c) 9

(d) 8

4. Find the slope of the line passing through the points $(2, 3)$ and $(6, 7)$.

(a) 1

(b) 2

(c) $\frac{1}{2}$

(d) 4

5. Find the distance between the points $(1, -1)$ and $(4, 3)$.

(a) 5

(b) 6

(c) 7

(d) 8

6. What is the midpoint of the points $(-2, 4)$ and $(3, -1)$?

(a) $(0.5, 1.5)$

(b) $(1, 2)$

(c) $(0.5, 2)$

(d) $(1, 1)$

7. Find the slope of the line passing through the points $(1, 5)$ and $(4, 3)$.

(a) $\frac{2}{3}$

(b) $\frac{-2}{3}$

(c) 3

(d) -3

8. Find the distance between the points $(0, 0)$ and $(3, 4)$.

(a) 5

(b) 6

(c) 7

(d) 4

9. Find the midpoint of the points $(-3, 2)$ and $(1, -6)$.

   (a) $(-1, -2)$

   (b) $(-2, 4)$

   (c) $(-1, -1)$

   (d) $(0, -2)$

10. Find the slope of the line passing through the points $(-1, 4)$ and $(2, 6)$.

    (a) $\frac{2}{3}$

    (b) $\frac{3}{2}$

    (c) $\frac{1}{2}$

    (d) 2

11. If the distance between the points $(x, 4)$ and $(2, -2)$ is 5, find x.

    (a) 3

    (b) 4

    (c) 5

    (d) 6

12. The distance between the points $(4, 1)$ and $(x, 5)$ is 5. What is the value of x?

    (a) 3

    (b) 6

    (c) 5

    (d) 4

13. Find the midpoint of the points $(-2, 3)$ and $(4, -1)$.
    (Grid-in Question: Answer in the grid as a number.)

14. Find the distance between the points $(1, -2)$ and $(4, 2)$.
    (Grid-in Question: Answer in the grid as a number.)

Answer Key

1. (a) 5
2. (a) $(7, 4)$
3. (a) 7
4. (a) 1
5. (a) 5
6. (a) $(0.5, 1.5)$
7. (b) $\frac{-2}{3}$
8. (a) 5
9. (a) $(-1, -2)$
10. (b) $\frac{2}{3}$
11. (a) 3
12. (b) 6
13. $(-1, 1)$ (Grid-in answer)
14. 5 (Grid-in answer)

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