

SAT Math — Distance Between Two Points

Name: _____ Date: _____

Directions: Choose the answer that best answers each question. No calculator is necessary unless you choose to use one.

- What is the distance between the points (2, 3) and (8, 11)?
 - 8
 - 10
 - 12
 - 14
- The points A(-4, 5) and B(6, 5) are shown on the coordinate plane. What is the distance between A and B?
 - 10
 - 8
 - 12
 - 14
- Point P has coordinates (3, -2), and point Q has coordinates (9, 6). Which expression represents the distance between P and Q?
 - $\sqrt{(9 + 3)^2 + (6 + 2)^2}$
 - $\sqrt{(9 - 3)^2 + (6 - 2)^2}$
 - $\sqrt{(9 - 3)^2 + (6 + 2)^2}$
 - $\sqrt{(9 + 3)^2 + (6 - 2)^2}$
- The endpoints of a line segment are (-2, -1) and (4, 7). What is the length of the line segment?
 - $\sqrt{52}$
 - $\sqrt{72}$
 - $\sqrt{84}$
 - 10
- Two points have coordinates (x, 4) and (x, 13). What is the distance between the two points?
 - $x + 9$
 - $9x$
 - 17
 - 9
- A map uses a coordinate grid to represent a city. A park is located at (-3, 2), and a library is located at (5, 8). If each unit represents 1 mile, approximately how many miles apart are the park and library?
 - 8
 - 9
 - 10
 - 11
- The distance between points A(1, 2) and B(7, y) is 10. If $y > 2$, what is the value of

y? A. 10

B. 8

C. 6

D. 12

8. A line segment has endpoints $(-5, -4)$ and $(7, 1)$. What is the distance between the endpoints? A. 13

B. $\sqrt{169}$

C. $\sqrt{119}$

D. $\sqrt{144}$

9. Points $M(2, 7)$ and $N(10, 13)$ are two locations on a coordinate plane. Which of the following is the exact distance between M and N?

A. 10

B. $\sqrt{96}$

C. $\sqrt{100}$

D. 14

10. A rectangle has vertices at $(-2, 1)$, $(6, 1)$, $(6, 7)$, and $(-2, 7)$. What is the length of the diagonal of the rectangle?

A. 8

B. 10

C. 12

D. 14

Answer Key

Question	Answer
1	B
2	A
3	C
4	D
5	D
6	C
7	A
8	A
9	A
10	B