

Build Tasks



Find the distance and show it equals a given value.

1. Find the distance between $(-1, 2)$ and $(5, 10)$.

2. Find the distance between $(-4, -3)$ and $(8, 2)$.

3. Show that the distance from $(2, 1)$ to $(10, 7)$ is 10.

4. Show that the distance from $(-3, -4)$ to $(2, 8)$ is 13.

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Find a missing coordinate given the distance, or identify an error in a method.

5. One point is $(1, 1)$. Another point is $(x, 5)$. If the distance is 5, find a possible value of x .

6. One point is $(-2, 3)$. Another point is $(4, y)$. If the distance is 10, find a possible value of y .

7. A student says the distance from $(1, 2)$ to $(4, 6)$ is $3 + 4 = 7$. Explain the mistake.

8. A student says the distance from $(-3, 1)$ to $(5, 16)$ is $8^2 + 15^2 = 289$. What did they forget?

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Compare segment lengths, and verify whether a distance is a whole number.

9. Which is longer: the segment from $(0, 0)$ to $(8, 15)$ or the segment from $(0, 0)$ to $(7, 24)$?

10. Which is longer: the segment from $(2, 3)$ to $(8, 11)$ or the segment from $(2, 3)$ to $(7, 15)$?

11. The distance between $(-1, -1)$ and $(7, 5)$ is a whole number. Show why.

12. The distance between $(-4, 2)$ and $(1, 14)$ is a whole number. Show why.