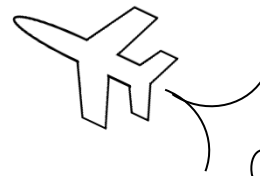


MAth on the Fly!



NAME: _____ DATE: _____

The Distance Formula

In each problem, find the distance between each set of points.

1. $(11,5)$ and $(8,1)$

2. $(7,4)$ and $(9,10)$

3. $(-2,0)$ and $(3,7)$

4. $(4,6)$ and $(-1,-6)$

5. $(12,0)$ and $(2,5)$

6. $(-1,-3)$ and $(-9,3)$

7. $(-7,20)$ and $(2,8)$

8. $(5,9)$ and $(9,11)$

9. $(-8,-5)$ and $(-9,1)$

10. $(6,0)$ and $(6,-7)$

11. $(10,1)$ and $(-14,8)$

12. $(4,-1)$ and $(-5,-9)$

13. $(6,-2)$ and $(3,7)$

14. $(3,15)$ and $(19,3)$

SOLUTIONS

$$1. \quad D = \sqrt{9 + 16} = \sqrt{25} = 5$$

$$2. \quad D = \sqrt{4 + 36} = \sqrt{40} \approx 6.32$$

$$3. \quad D = \sqrt{25 + 49} = \sqrt{74} \approx 8.60$$

$$4. \quad D = \sqrt{25 + 144} = \sqrt{169} = 13$$

$$5. \quad D = \sqrt{100 + 25} = \sqrt{125} \approx 11.18$$

$$6. \quad D = \sqrt{64 + 36} = \sqrt{100} = 10$$

$$7. \quad D = \sqrt{81 + 144} = \sqrt{225} = 15$$

$$8. \quad D = \sqrt{16 + 4} = \sqrt{20} \approx 4.47$$

$$9. \quad D = \sqrt{1 + 36} = \sqrt{37} \approx 6.08$$

$$10. \quad D = \sqrt{0 + 49} = \sqrt{49} = 7$$

$$11. \quad D = \sqrt{576 + 49} = \sqrt{625} = 25$$

$$12. \quad D = \sqrt{81 + 64} = \sqrt{145} \approx 12.04$$

$$13. \quad D = \sqrt{9 + 81} = \sqrt{90} \approx 9.49$$

$$14. \quad D = \sqrt{256 + 144} = \sqrt{400} = 20$$