When points do not fall on horizontal or vertical lines, you can't count blocks...must use *The Distance Formula*.

To find the distance between $A(x_1,y_1)$ and $B(x_2,y_2)$

$$AB = \sqrt{(x_1-x_2)^2 + (y_1-y_2)^2} \quad \text{Round to loths}$$

$$B_{1}g_{X} - Small_{X} \quad B_{1}g_{Y} - Small_{Y}$$

Example 1

Find the distance between R(-2, 6) and S(1, -3)

$$RS = \sqrt{(1+2)^2 + (6+3)^2} = \sqrt{3^2 + 9^2} = \sqrt{9+81}$$

$$\sqrt{81} \sqrt{100} \sqrt{90} = \sqrt{10}$$

$$\sqrt{9} \sqrt{10} \approx 9.5$$

Example 2
Find the distance between P(-3, 8) and Q(-1, -5)

(X, y)

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