

NAME: _____

1. 010524a, P.I. G.G.67

The coordinates of point R are $(-3,2)$ and the coordinates of point T are $(4,1)$. What is the length of \overline{RT} ?

- [A] $4\sqrt{3}$ [B] $\sqrt{10}$
 [C] $5\sqrt{2}$ [D] $2\sqrt{2}$

2. 080726a, P.I. G.G.67

What is the length of the line segment that joins the points whose coordinates are $(4,7)$ and $(-3,5)$?

- [A] $\sqrt{5}$ [B] $3\sqrt{6}$
 [C] $\sqrt{53}$ [D] $\sqrt{193}$

3. 080919ge, P.I. G.G.67

If the endpoints of \overline{AB} are $A(-4,5)$ and $B(2,-5)$, what is the length of \overline{AB} ?

- [A] 2 [B] $2\sqrt{34}$ [C] $\sqrt{61}$ [D] 8

4. fall0831ge, P.I. G.G.67

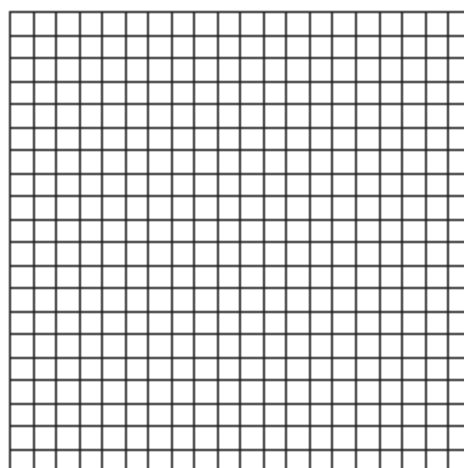
The endpoints of \overline{PQ} are $P(-3,1)$ and $Q(4,25)$. Find the length of \overline{PQ} .

5. 080030a

Katrina hikes 5 miles north, 7 miles east, and then 3 miles north again. To the *nearest tenth of a mile*, how far, in a straight line, is Katrina from her starting point?

6. 060330a

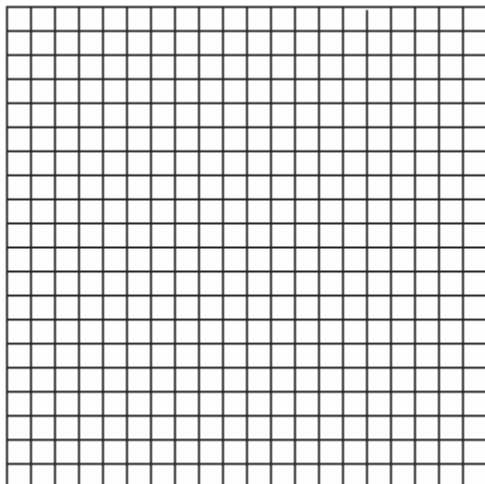
To get from his high school to his home, Jamal travels 5.0 miles east and then 4.0 miles north. When Sheila goes to her home from the same high school, she travels 8.0 miles east and 2.0 miles south. What is the measure of the shortest distance, to the *nearest tenth of a mile*, between Jamal's home and Sheila's home? [The use of the accompanying grid is optional.]



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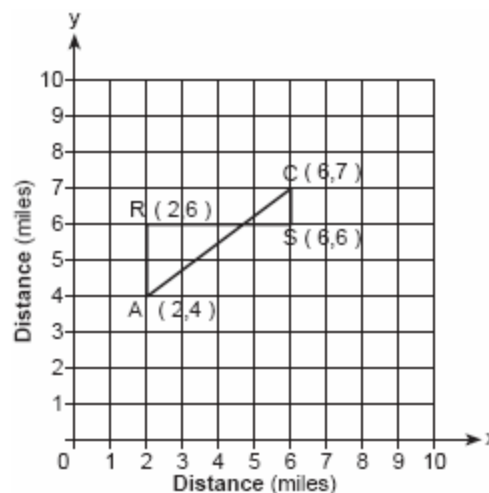
7. 060633a

Two hikers started at the same location. One traveled 2 miles east and then 1 mile north. The other traveled 1 mile west and then 3 miles south. At the end of their hikes, how many miles apart are the two hikers? [The use of the accompanying grid is optional.]



8. 010226a

Jerry and Jean Jogger start at the same time from point A shown on the accompanying set of axes. Jerry jogs at a rate of 5 miles per hour traveling from point A to point R to point S and then to point C. Jean jogs directly from point A to point C on \overline{AC} at the rate of 3 miles per hour. Which jogger reaches point C first? Explain or show your reasoning.



[1] C _____

[2] C _____

[3] B _____

[2] 25, and appropriate work is shown.

[1] Appropriate work is shown, but one computational or simplification error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] 25, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[4] incorrect procedure.

[3] 10.6 and the Pythagorean theorem, $C^2 = 8^2 + 7^2$, or any other appropriate method is shown.

[2] Appropriate work is shown, but the answer is left as $\sqrt{113}$ or is rounded incorrectly.

or [2] Appropriate work is shown, but one computational error is made.

[1] Appropriate work is shown, but multiple errors are made.

or [1] The only correct work shown is a correctly drawn diagram with three distances labeled.

or [1] 10.6 but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[5] incorrect procedure.

[3] 6.7, and appropriate work is shown, such as using the distance formula.

[2] Appropriate work is shown, but one computational or rounding or graphing error is made or the answer is left in radical form.

[1] Appropriate work is shown, but more than one computational or rounding or graphing error is made.

or [1] Only an appropriate diagram or graph is shown.

or [1] The horizontal distance is determined to be 3, and the vertical distance is determined to be 6, but the shortest distance is not found.

or [1] 6.7, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[6] incorrect procedure.

[2] 5, and appropriate work is shown, such as the distance formula, the Pythagorean theorem, or a Pythagorean triple.

[1] Appropriate work is shown, but one computational or graphing error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] A correct equation is written, but no further correct work is shown.

or [1] 5, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[7] incorrect procedure.

[3] Jerry, and appropriate work is shown, such as the following explanation: Jerry traveled 7 miles at a rate of 5 miles per hour and his time was $1\frac{2}{5}$ hours; Jean traveled 5 miles at a rate of 3 miles per hour for a time of $1\frac{2}{3}$ hours.

[2] The time for each jogger is calculated appropriately, but an error is made in determining one of the distances, but an appropriate answer is found.

or [2] The time for each jogger is calculated correctly, but the question of which person reached C first is not answered.

or [2] Both distances are calculated correctly, but an error is made in determining times, but an appropriate answer is found.

[1] Only the distances are calculated correctly. No answer to the question is found or an answer is found based on distance only.

or [1] The time for only one jogger is calculated correctly, and the question of which person reached C first is not answered.

or [1] The time for both joggers is calculated appropriately, but multiple computational errors are made.

or [1] Jerry and $1\frac{2}{5}$ hours and $1\frac{2}{3}$ hours, but no work is shown.

[0] Jerry, but no work is shown.

or [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[8] obviously incorrect procedure.