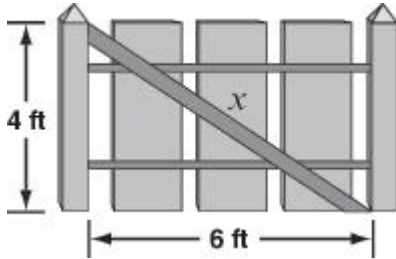


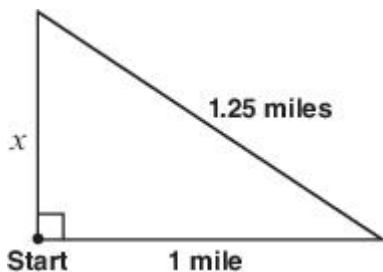
Directions: Please choose the best answer choice for each of the following questions.

1. A gate in a fence is 4 feet tall and 6 feet wide, as shown.



A wooden support is to be nailed across the diagonal of this gate. What is the approximate length, x , of the wooden support?

- A. 5.0 ft
 B. 6.3 ft
 C. 7.2 ft
 D. 10.0 ft
2. A rectangle has a length of 50 feet and a width of 120 feet. What is the length of the diagonal of this rectangle?
- A. 70 feet
 B. 130 feet
 C. 150 feet
 D. 170 feet
3. This diagram shows the triangular route that Diane walks each morning.



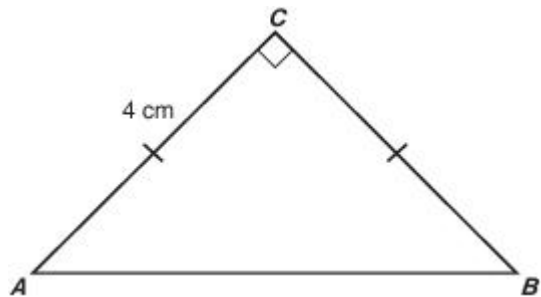
How far does Diane walk each morning?

- A. 2.6 miles
 B. 3.0 miles
 C. 3.25 miles
 D. 3.5 miles

4. Jenna is putting up a slide that is 13 ft. long. The bottom of the slide is on the ground 12 ft. from the base of the stand. How high up on the stand is the top of the slide?

- A. 1 ft.
 B. 5 ft.
 C. 10 ft.
 D. 25 ft.

5. In right $\triangle ACB$ shown below, what is the length of \overline{AB} ?



- A. 4 cm
 B. $4\sqrt{2}$ cm
 C. 8 cm
 D. $8\sqrt{2}$ cm

Stop! You have finished this exam.