

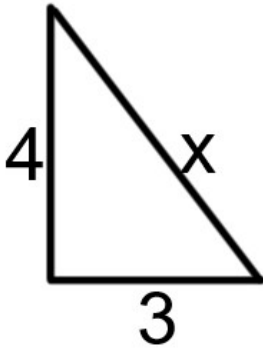
Name _____
Mr. Schlansky

Date _____
Geometry

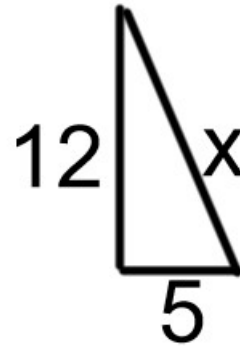
Pythagorean Theorem

Find the missing side of each right triangle rounding to the nearest tenth if necessary

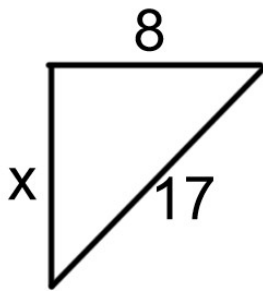
1.



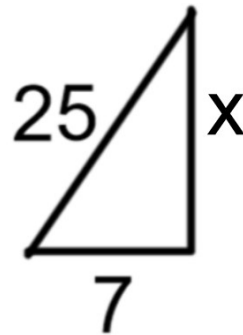
2.



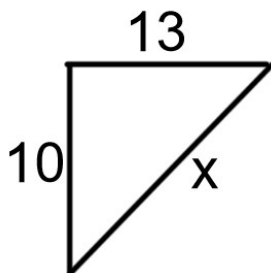
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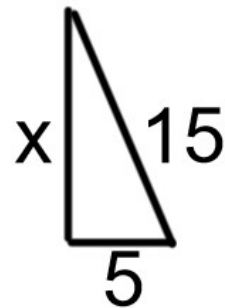
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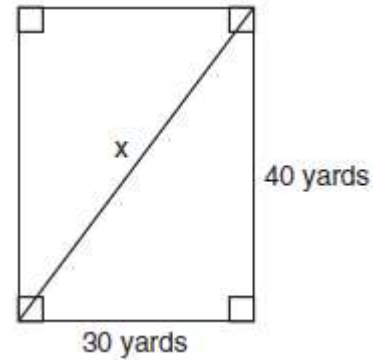
5.



6.



7. Tanya runs diagonally across a rectangular field that has a length of 40 yards and a width of 30 yards, as shown in the diagram below.

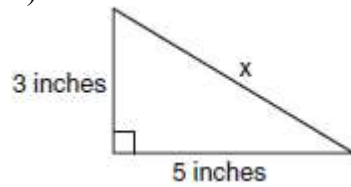


What is the length of the diagonal, in yards, that Tanya runs?

- 1) 50
- 2) 60
- 3) 70
- 4) 80

8. What is the value of x , in inches, in the right triangle below?

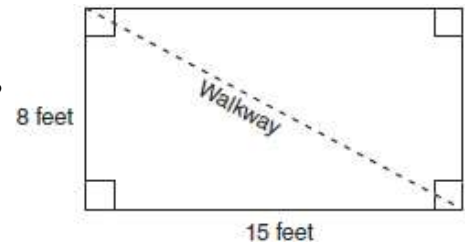
- 1) $\sqrt{15}$
- 2) 8
- 3) $\sqrt{34}$
- 4) 4



9. Nancy's rectangular garden is represented in the diagram below.

If a diagonal walkway crosses her garden, what is its length, in feet?

- 1) 17
- 2) 22
- 3) $\sqrt{161}$
- 4) $\sqrt{529}$



10. The end of a dog's leash is attached to the top of a 5-foot-tall fence post, as shown in the diagram below. The dog is 7 feet away from the base of the fence post.

How long is the leash, to the *nearest tenth of a foot*?

- 1) 4.9
- 2) 8.6
- 3) 9.0
- 4) 12.0

