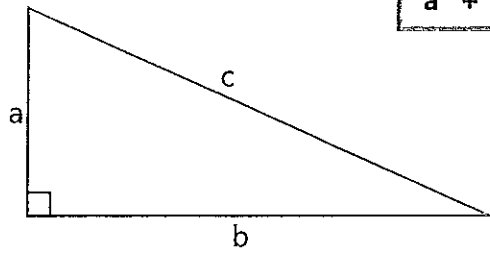


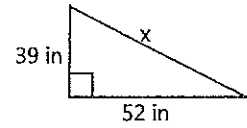
Name _____ Date _____

The Pythagorean Theorem

$$a^2 + b^2 = c^2$$

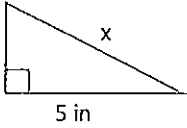
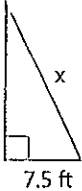
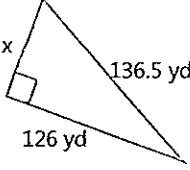
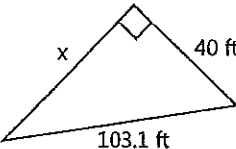
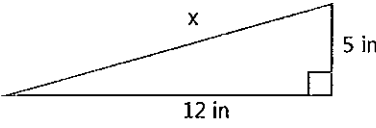
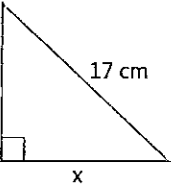
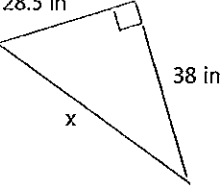
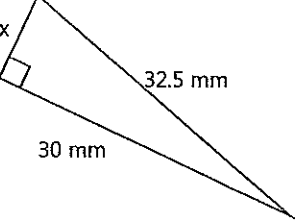


Example:



$$\begin{aligned} 39^2 + 52^2 &= x^2 \\ 1521 + 2704 &= x^2 \\ 4225 &= x^2 \\ \sqrt{4225} &= \sqrt{x^2} \\ 65 \text{ in} &= x \end{aligned}$$

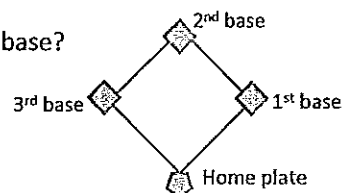
Directions: Solve each problem using the Pythagorean Theorem. Round answers to the nearest tenth.

<p>1. </p> <p>3. </p> <p>5. </p> <p>7. </p>	<p>2. </p> <p>4. </p> <p>6. </p> <p>8. </p>
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9. A baseball diamond has four right angles and four equal sides. Each side is 90 feet.

What is the shortest distance between home plate and second base?

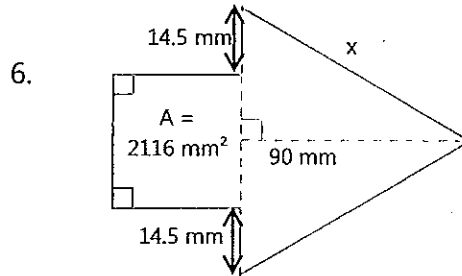
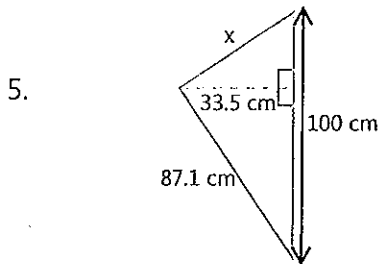
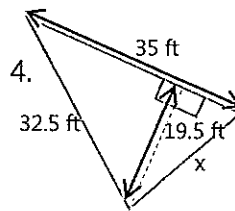
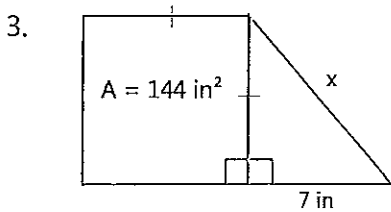
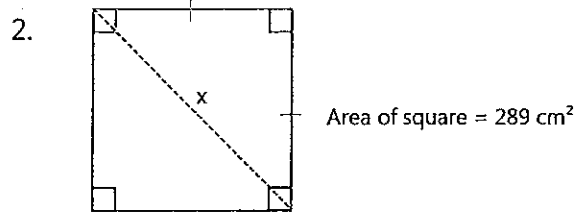
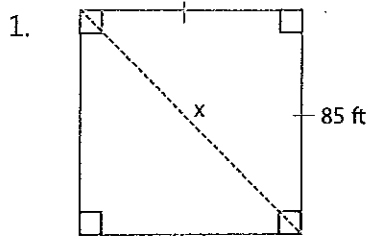
Round your answer to the nearest tenth.



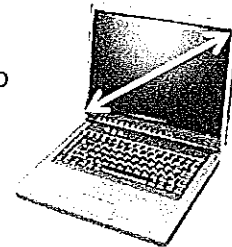
Name _____ Date _____

Practice Problems: Pythagorean Theorem

Directions: Solve each problem. Round your answer to the nearest tenth.



7. Laptop screens are measured by their diagonal, from the top corner to the opposite bottom corner. Looking at the information from the two computers below, which one has the bigger diagonal?



<u>Computer 1</u> Length: 13.4" Width: 7.8"	<u>Computer 2</u> Length: 15" Width: 6"
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8. A triangle has measurements of 36 ft, 48 ft, and 62 ft. Is this a right triangle? Why or why not?