

Name _____



Date _____

The Pythagorean Theorem

Find the missing length for each right triangle. Simplify your answer.

Enter answers
in text boxes.

1. $a = 24$ $b = 45$ $c = \underline{\hspace{2cm}}$	2. $a = 4$ $b = \underline{\hspace{2cm}}$ $c = \sqrt{377}$	3. $a = \underline{\hspace{2cm}}$ $b = 20$ $c = \sqrt{409}$
4. $a = 20$ $b = \underline{\hspace{2cm}}$ $c = 29$	5. $a = 2$ $b = 10$ $c = \underline{\hspace{2cm}}$	6. $a = \underline{\hspace{2cm}}$ $b = 8$ $c = 4\sqrt{5}$
7. $a = \underline{\hspace{2cm}}$ $b = 24$ $c = 25$	8. $a = 10$ $b = 20$ $c = \underline{\hspace{2cm}}$	9. $a = \underline{\hspace{2cm}}$ $b = 35$ $c = 37$
10. $a = 6$ $b = \underline{\hspace{2cm}}$ $c = 2\sqrt{109}$	11. $a = 7$ $b = 17$ $c = \underline{\hspace{2cm}}$	12. $a = 19$ $b = \underline{\hspace{2cm}}$ $c = \sqrt{5122}$
13. $a = \underline{\hspace{2cm}}$ $b = 16$ $c = 2\sqrt{113}$	14. $a = \underline{\hspace{2cm}}$ $b = 17$ $c = \sqrt{773}$	15. $a = 5$ $b = 12$ $c = \underline{\hspace{2cm}}$
16. $a = 21$ $b = 13$ $c = \underline{\hspace{2cm}}$	17. $a = 15$ $b = \underline{\hspace{2cm}}$ $c = 25$	18. $a = 14$ $b = \underline{\hspace{2cm}}$ $c = 2\sqrt{65}$