Name _____ Date _____

The Pythagorean Theorem

Enter answers in text boxes.

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

1. $a = 2$ $b = 12$ $c =$ _____	2. $a = 33$ $b =$ _____ $c = 65$	3. $a =$ _____ $b = 14$ $c = \sqrt{277}$
4. $a = 11$ $b =$ _____ $c = 11\sqrt{5}$	5. $a = 6$ $b = 13$ $c =$ _____	6. $a =$ _____ $b = 25$ $c = \sqrt{949}$
7. $a = 8$ $b = 15$ $c =$ _____	8. $a = 52$ $b =$ _____ $c = \sqrt{2929}$	9. $a = 4$ $b = 5$ $c =$ _____
10. $a =$ _____ $b = 45$ $c = 51$	11. $a = 9$ $b =$ _____ $c = 9\sqrt{5}$	12. $a =$ _____ $b = 12$ $c = 13$
13. $a = 25$ $b =$ _____ $c = \sqrt{821}$	14. $a = 10$ $b = 23$ $c =$ _____	15. $a =$ _____ $b = 10$ $c = \sqrt{461}$
16. $a = 19$ $b =$ _____ $c = \sqrt{377}$	17. $a = 21$ $b = 15$ $c =$ _____	18. $a =$ _____ $b = 21$ $c = \sqrt{1066}$

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