

Find the hypotenuse

Name _____

Date _____

Give exact answers and decimals to 2 places.

Problem	Answer	Problem	Answer
1. $a = 2, b = 15$		9. $a = 2, b = 10$	
2. $a = 7, b = 14$		10. $a = 3, b = 3$	
3. $a = 8, b = 10$		11. $a = 12, b = 4$	
4. $a = 10, b = 10$		12. $a = 12, b = 11$	
5. $a = 10, b = 2$		13. $a = 6, b = 2$	
6. $a = 4, b = 8$		14. $a = 15, b = 11$	
7. $a = 4, b = 10$		15. $a = 10, b = 6$	
8. $a = 2, b = 5$		16. $a = 4, b = 14$	

Answer key — Find the hypotenuse

#	Problem	Answer
1	$a = 2, b = 15$	$\sqrt{229} \approx 15.13$
2	$a = 7, b = 14$	$7\sqrt{5} \approx 15.65$
3	$a = 8, b = 10$	$2\sqrt{41} \approx 12.81$
4	$a = 10, b = 10$	$10\sqrt{2} \approx 14.14$
5	$a = 10, b = 2$	$2\sqrt{26} \approx 10.20$
6	$a = 4, b = 8$	$4\sqrt{5} \approx 8.94$
7	$a = 4, b = 10$	$2\sqrt{29} \approx 10.77$
8	$a = 2, b = 5$	$\sqrt{29} \approx 5.39$
9	$a = 2, b = 10$	$2\sqrt{26} \approx 10.20$
10	$a = 3, b = 3$	$3\sqrt{2} \approx 4.24$
11	$a = 12, b = 4$	$4\sqrt{10} \approx 12.65$
12	$a = 12, b = 11$	$\sqrt{265} \approx 16.28$
13	$a = 6, b = 2$	$2\sqrt{10} \approx 6.32$
14	$a = 15, b = 11$	$\sqrt{346} \approx 18.60$
15	$a = 10, b = 6$	$2\sqrt{34} \approx 11.66$
16	$a = 4, b = 14$	$2\sqrt{53} \approx 14.56$