

The Hypotenuse

You will be given the two shorter sides (a and b) of a right-angled triangle and must calculate the size of the hypotenuse (c) by applying the formula:
 $c^2 = \sqrt{a^2 + b^2}$

Round your answers to the nearest integer (whole number), where appropriate. Then, locate each answer in the grid.

To find the answers, you must follow these rules:

- Read from left to right, e.g. To locate 34, circle the 3 and 4.

3	4	
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- Read down, e.g. To locate 13, circle the 1 and 3.

6
1
3
- Answers must be in their own 3×3 grid. You cannot go over the boundary lines.
- Answers < 10 will have a zero in front of them so $09 = 9$
- Example: $a = 17, b = 12$
 $\sqrt{17^2 + 12^2} = 20.808...$
 Rounded to the nearest whole number = 21

0	1	2		3	4			6	4	8
5		3		9	2	7		1	0	7
6	7	8		1	8	4		3	2	
1	4	4		8	6	3		8	2	6
5		7		1		6		5		9
5	0	3		9	9	5		2	4	6
	0	9		7	5	9		2	0	6
5	8	0		7		8		9		2
7	9	4		6	6	8		3	7	1



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|----------------------------|---------------------------------|--|
| 1. $a = 5, b = 4$ _____ | 11. $a = 55, b = 59$ _____ | |
| 2. $a = 1, b = 1$ _____ | 12. $a = 22, b = 30$ _____ | |
| 3. $a = 3, b = 4$ _____ | 13. $a = 20, b = 11$ _____ | |
| 4. $a = 2, b = 2$ _____ | 14. $a = 119, b = 99$ _____ | |
| 5. $a = 6, b = 8$ _____ | 15. $a = 49, b = 58$ _____ | |
| 6. $a = 13, b = 12$ _____ | 16. $a = 56, b = 48$ _____ | |
| 7. $a = 5, b = 12$ _____ | 17. $a = 27, b = 21$ _____ | |
| 8. $a = 25, b = 26$ _____ | 18. $a = 6.5, b = 6$ _____ | |
| 9. $a = 15, b = 13$ _____ | 19. $a = 21.5, b = 38.75$ _____ | |
| 10. $a = 10, b = 24$ _____ | 20. $a = 31.6, b = 33.3$ _____ | |



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 Rounded to the nearest whole number = 21

0	1	2	3	4		6	4	8
5		3	9	2	7	1	0	7
6	7	8	1	8	4	3	2	
1	4	4	8	6	3	8	2	6
5		7	1		6	5		9
5	0	3	9	9	5	2	4	6
	0	9	7	5	9	2	0	6
5	8	0	7		8	9		2
7	9	4	6	6	8	3	7	1



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|----------------------|----------|---------------------------|-----------|
| 1. $a = 5, b = 4$ | $c = 06$ | 11. $a = 55, b = 59$ | $c = 81$ |
| 2. $a = 1, b = 1$ | $c = 01$ | 12. $a = 22, b = 30$ | $c = 37$ |
| 3. $a = 3, b = 4$ | $c = 05$ | 13. $a = 20, b = 11$ | $c = 23$ |
| 4. $a = 2, b = 2$ | $c = 03$ | 14. $a = 119, b = 99$ | $c = 155$ |
| 5. $a = 6, b = 8$ | $c = 10$ | 15. $a = 49, b = 58$ | $c = 76$ |
| 6. $a = 13, b = 12$ | $c = 18$ | 16. $a = 56, b = 48$ | $c = 74$ |
| 7. $a = 5, b = 12$ | $c = 13$ | 17. $a = 27, b = 21$ | $c = 34$ |
| 8. $a = 25, b = 26$ | $c = 36$ | 18. $a = 6.5, b = 6$ | $c = 09$ |
| 9. $a = 15, b = 13$ | $c = 20$ | 19. $a = 21.5, b = 38.75$ | $c = 44$ |
| 10. $a = 10, b = 24$ | $c = 26$ | 20. $a = 31.6, b = 33.3$ | $c = 46$ |

