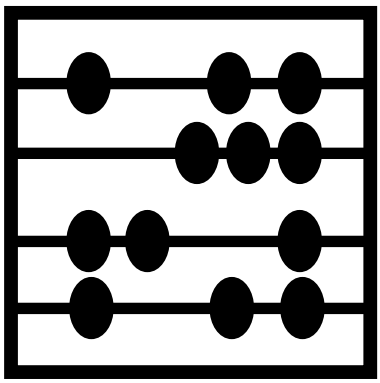
Pythagorean Theorem



Geometry

Practice Worksheet

Practice you can't find anywhere else

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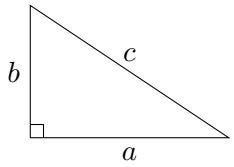
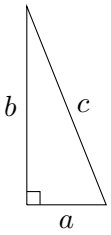
Solve the right triangle for the indicated side.

Type 1: Both legs are given

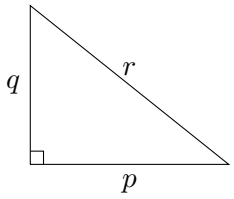
1. If $a = 6$ and $b = 4$, solve for c.



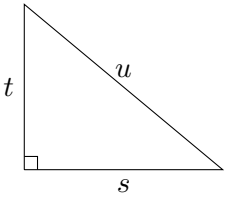
2. If $a = 4$ and $b = 10$, solve for c.



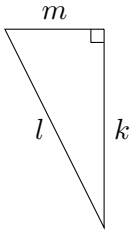
3. If $p = 10$ and $q = 8$, solve for r.



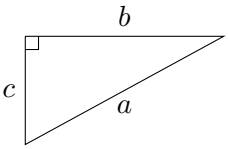
4. If $s = 12$ and $t = 10$, solve for u.



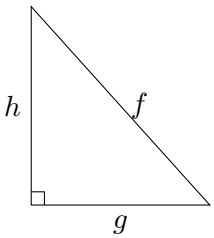
5. If $m = 8$ and $k = 16$, solve for l.



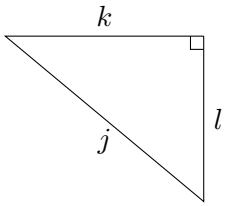
6. If $b = 22$ and $c = 12$, solve for a.



7. If $g = 18$ and $h = 20$, solve for f.



8. If $k = 24$ and $l = 20$, solve for j.



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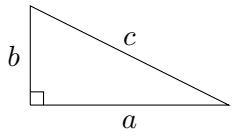
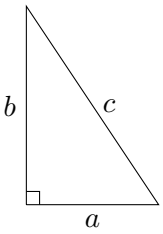
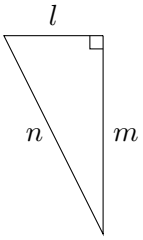
9. If $a = 6$ and $b = 3$, solve for c.



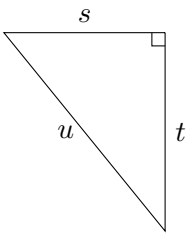
10. If $a = 6$ and $b = 9$, solve for c.



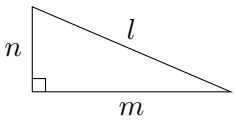
11. If $l = 5$ and $m = 10$, solve for n.



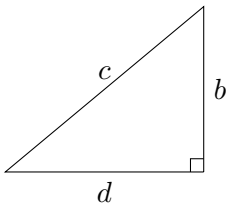
12. If $s = 13$ and $t = 16$, solve for u.



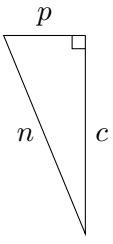
13. If $m = 21$ and $n = 9$, solve for l.



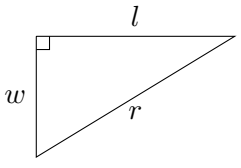
14. If $d = 18$ and $b = 15$, solve for c.



15. If $p = 7$ and $c = 17$, solve for n.

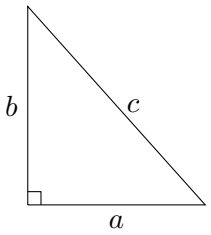


16. If $l = 23$ and $w = 14$, solve for r.

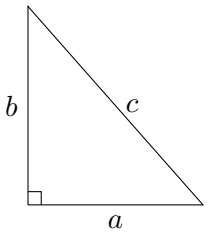


Type 2: Hypotenuse and a leg are given

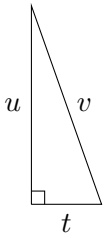
17. If $a = 4$ and $c = 6$, solve for b.



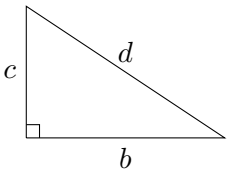
18. If $b = 6$ and $c = 8$, solve for a.



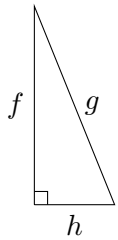
19. If $t = 4$ and $v = 12$, solve for u.



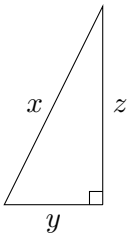
20. If $b = 10$ and $d = 12$, solve for c.



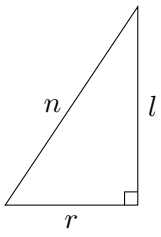
21. If $h = 6$ and $g = 16$, solve for f.



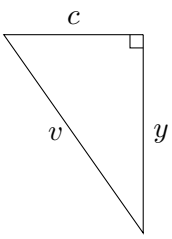
22. If $y = 8$ and $x = 18$, solve for z.



23. If $r = 10$ and $n = 18$, solve for l.



24. If $y = 18$ and $v = 22$, solve for c.



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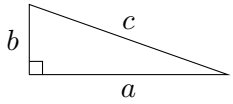
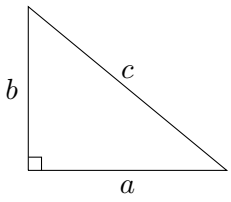
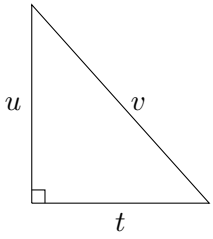
25. If $b = 3$ and $c = 9$, solve for a.



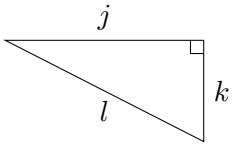
26. If $b = 7$ and $c = 11$, solve for a.



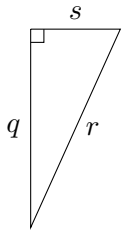
27. If $t = 6$ and $v = 9$, solve for u.



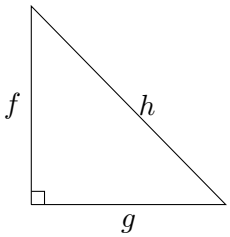
28. If $k = 5$ and $l = 11$, solve for j.



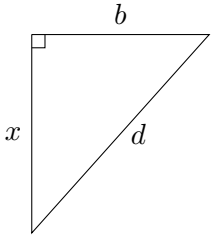
29. If $s = 7$ and $r = 17$, solve for q.



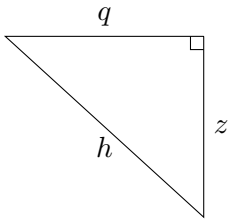
30. If $f = 15$ and $h = 21$, solve for g.



31. If $b = 14$ and $d = 21$, solve for x.



32. If $q = 17$ and $h = 23$, solve for z.



Type 1: Both legs are given

1. $c = 2\sqrt{13}$
2. $c = 2\sqrt{29}$
3. $r = 2\sqrt{41}$
4. $u = 2\sqrt{61}$
5. $l = 8\sqrt{5}$
6. $a = 2\sqrt{157}$
7. $f = 2\sqrt{181}$
8. $j = 4\sqrt{61}$
9. $c = 3\sqrt{5}$
10. $c = 3\sqrt{13}$
11. $n = 5\sqrt{5}$
12. $u = 5\sqrt{17}$
13. $l = 3\sqrt{58}$
14. $c = 3\sqrt{61}$
15. $n = 13\sqrt{2}$
16. $r = 5\sqrt{29}$

Type 2: Hypotenuse and a leg are given

17. $b = 2\sqrt{5}$
18. $a = 2\sqrt{7}$
19. $u = 8\sqrt{2}$

20. $c = 2\sqrt{11}$

21. $f = 2\sqrt{55}$

22. $z = 2\sqrt{65}$

23. $l = 4\sqrt{14}$

24. $c = 4\sqrt{10}$

25. $a = 6\sqrt{2}$

26. $a = 6\sqrt{2}$

27. $u = 3\sqrt{5}$

28. $j = 4\sqrt{6}$

29. $q = 4\sqrt{15}$

30. $g = 6\sqrt{6}$

31. $x = 7\sqrt{5}$

32. $z = 4\sqrt{15}$