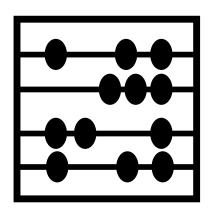
Pythagorean Triples



Geometry

Student Worksheet

Practice you can't find anywhere else

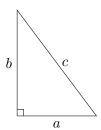
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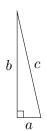
Solve the right triangle for the indicated side.

Type 1: Both legs are given

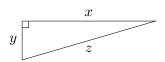
1. If a = 3 and b = 4, solve for c.



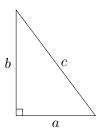
3. If a = 9 and b = 40, solve for c.



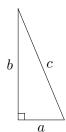
5. If x = 24 and y = 7, solve for z.



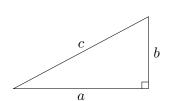
7. If a = 6 and b = 8, solve for c.



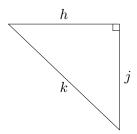
2. If a = 5 and b = 12, solve for c.



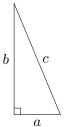
4. If a = 15 and b = 8, solve for c.



6. If h = 21 and j = 20, solve for k.

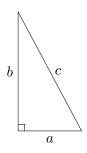


8. If a = 10 and b = 24, solve for c.

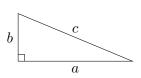




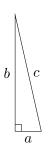
9. If a = 24 and b = 45, solve for c.



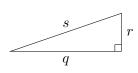
11. If a = 36 and b = 15, solve for c.



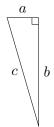
13. If a = 45 and b = 200, solve for c.



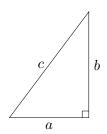
15. If q = 105 and r = 36, solve for s.



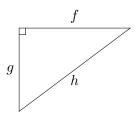
10. If a = 14 and b = 48, solve for c.



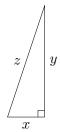
12. If a = 12 and b = 16, solve for c.



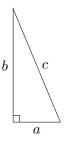
14. If f = 28 and g = 21, solve for h.



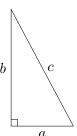
16. If x = 40 and y = 120, solve for z.

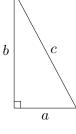


17. If $a = \frac{5}{7}$ and $b = \frac{12}{7}$, solve for c. 18. If $a = \frac{3}{13}$ and $b = \frac{4}{13}$, solve for c.

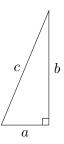


19. If $a = \frac{8}{17}$ and $b = \frac{15}{17}$, solve for c.

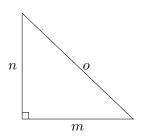


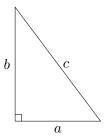


21. If a = 1 and $b = \frac{12}{5}$, solve for c.

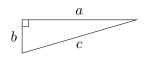


23. If $m = \frac{21}{2}$ and n = 10, solve for o. 24. If s = 5 and $t = \frac{8}{3}$, solve for u.

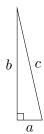


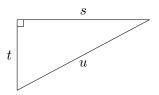


20. If $a = \frac{24}{25}$ and $b = \frac{7}{25}$, solve for c.



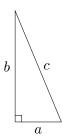
22. If a = 1 and $b = \frac{40}{9}$, solve for c.



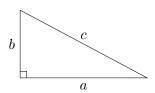


Type 2: Hypotenuse and a leg are given

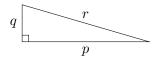
25. If a = 5 and c = 13, solve for b.



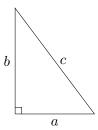
27. If a = 15 and c = 17, solve for b.



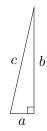
29. If q = 7 and r = 25, solve for p.



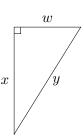
26. If b = 4 and c = 5, solve for a.



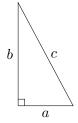
28. If a = 9 and c = 41, solve for b.



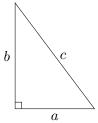
30. If w = 28 and y = 53, solve for x.



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- 31. If b = 30 and c = 34, solve for a.

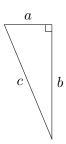


32. If b = 8 and c = 10, solve for a.

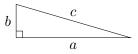




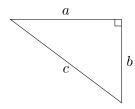
33. If a = 15 and c = 39, solve for b.



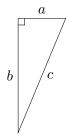
34. If a = 48 and c = 50, solve for b.



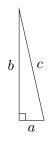
35. If a = 12 and c = 15, solve for b.



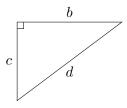
36. If b = 48 and c = 52, solve for a.



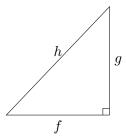
37. If b = 200 and c = 205, solve for a.



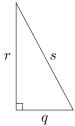
38. If b = 36 and d = 45, solve for c.



39. If g = 63 and h = 87, solve for f.

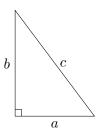


40. If r = 90 and s = 102, solve for q.

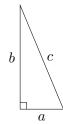


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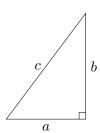
41. If $a = \frac{3}{7}$ and $c = \frac{5}{7}$, solve for b.



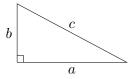
42. If $a = \frac{5}{11}$ and $c = \frac{13}{11}$, solve for b.



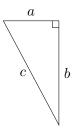
43. If $b = \frac{4}{5}$ and c = 1, solve for a.



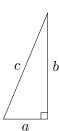
44. If $b = \frac{8}{17}$ and c = 1, solve for a.



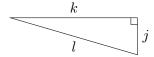
45. If a=1 and $c=\frac{17}{8}$, solve for b.



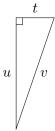
46. If $a = \frac{5}{12}$ and $c = \frac{13}{12}$, solve for b.



47. If j = 6 and $l = \frac{25}{4}$, solve for k.



48. If u = 7 and $v = \frac{37}{5}$, solve for t.





Type 1: Both legs are given

- 1. c = 5
- 2. c = 13
- 3. c = 41
- 4. c = 17
- 5. z = 25
- 6. k = 29
- 7. c = 10
- 8. c = 26
- 9. c = 51
- 10. c = 50
- 11. c = 39
- 12. c = 20
- 13. c = 205
- 14. h = 35
- 15. s = 111
- 16. z = 126
- 17. $c = \frac{13}{7}$
- 18. $c = \frac{5}{13}$
- 19. c = 1
- 20. c = 1



- 21. $c = \frac{13}{5}$
- 22. $c = \frac{41}{9}$
- 23. $o = \frac{29}{2}$
- 24. $u = \frac{17}{3}$

Type 2: Hypotenuse and a leg are given

- 25. b = 12
- 26. a = 3
- 27. b = 8
- 28. b = 40
- 29. p = 24
- 30. x = 45
- 31. a = 16
- 32. a = 6
- 33. b = 36
- 34. b = 14
- 35. b = 9
- 36. a = 20
- 37. a = 45
- 38. c = 27
- 39. f = 60
- 40. q = 48



- 41. $b = \frac{4}{7}$
- 42. $b = \frac{12}{11}$
- 43. $a = \frac{3}{5}$
- 44. $a = \frac{15}{17}$
- 45. $b = \frac{15}{8}$
- 46. b = 1
- 47. $k = \frac{7}{4}$
- 48. $t = \frac{12}{5}$