Name: Due Date: Teacher: Parent Sign:

1. Right triangle with legs 3 and 4. Find the hypotenuse.

2. Right triangle with legs 6 and 8. Find the hypotenuse.

3. Right triangle with legs 5 and 12. Find the hypotenuse.

4. Right triangle with legs 9 and 12. Find the hypotenuse.

5. Right triangle with legs 7 and 24. Find the hypotenuse.

6. Right triangle with legs 8 and 15. Find the hypotenuse.

7. Right triangle with hypotenuse 13 and one leg 5. Find the other leg.

8. Right triangle with hypotenuse 10 and one leg 6. Find the other leg.

9. Right triangle with hypotenuse 17 and one leg 8. Find the other leg.

10. Right triangle with legs 2 and 3. Find the hypotenuse.

11. Right triangle with legs 1 and 1. Find the hypotenuse.

12. Right triangle with one leg 4 and hypotenuse 5. Find the other leg.

13. Are the sides 5, 12, 13 a right triangle? ($\frac{Yes}{No}$)

14. Are the sides 6, 8, 10 a right triangle? ($\frac{Yes}{No}$)

15. Are the sides 7, 24, 25 a right triangle? ($\frac{Yes}{No}$)

16. Rectangle with sides 6 and 8. Find the diagonal.

17. Right triangle with legs 14 and 48. Find the hypotenuse.

18. A ladder leans against a wall reaching 12 ft high; the base is 5 ft from the wall. How long is the ladder?

19. Right triangle with legs 15 and 20. Find the hypotenuse.

20. Right triangle with legs 11 and 60. Find the hypotenuse.

21. Right triangle with legs 10 and 24. Find the hypotenuse.

22. Right triangle with legs 3 and 6. Find the hypotenuse (give simplified radical).

23. Right triangle with hypotenuse 25 and one leg 7. Find the other leg.

24. Right triangle with legs 9 and 40. Find the hypotenuse.

25. Right triangle with legs 4 and 7. Find the hypotenuse (simplified radical).

26. Right triangle with hypotenuse 13 and one leg 12. Find the other leg.

27. Square with side length 5. Find the diagonal.

28. Rectangle with sides 9 and 12. Find the diagonal.

29. Right triangle with legs 16 and 30. Find the hypotenuse.

30. Right triangle with legs 18 and 24. Find the hypotenuse.

31. Rectangular garden 7 by 24. Find the diagonal across the garden.

32. Right triangle with hypotenuse 29 and one leg 21. Find the other leg.

33. Right triangle with legs 1.5 and 2. Find the hypotenuse.

34. Right triangle with legs 9 and 12. Find the hypotenuse.

35. Are the sides 9, 40, 41 a right triangle? ($\frac{Yes}{No}$)

36. Isosceles right triangle with equal legs 3 and 3. Find the hypotenuse.

37. Isosceles right triangle with equal legs 7 and 7. Find the hypotenuse.

38. Isosceles right triangle with hypotenuse 10. Find the length of each equal leg (simplified).

39. Isosceles right triangle with equal legs 4 and 4. Find the hypotenuse.

40. Isosceles right triangle with hypotenuse 14. Find the length of each equal leg (simplified).

41. Isosceles right triangle with equal legs 1 and 1. Find the hypotenuse.

42. Isosceles right triangle with hypotenuse 2. Find the length of each equal leg (simplified).

43. Isosceles right triangle with equal legs 8 and 8. Find the hypotenuse.

44. Isosceles right triangle with hypotenuse 9. Find the length of each equal leg (simplified).

45. Isosceles right triangle with equal legs 12 and 12. Find the hypotenuse.

46. Isosceles right triangle with hypotenuse 20. Find the length of each equal leg (simplified).

47. Isosceles right triangle with equal legs 5 and 5. Find the hypotenuse.

48. Isosceles right triangle with equal legs 2.5 and 2.5. Find the hypotenuse (simplified).

49. Isosceles right triangle with hypotenuse 15. Find the length of each equal leg (simplified).

50. Isosceles right triangle with equal legs 0.5 and 0.5. Find the hypotenuse.