

Name \_\_\_\_\_



1. Emily is setting up a lemonade stand in her backyard. If she places the stand 5 feet away from one fence and 12 feet away from another fence, how far apart are the two fence corners?
2. Jack is flying a kite at the park. If the kite string measures 25 meters, and he holds it at a 30-degree angle from the ground, how high above the ground is the kite flying?
3. Mia is rearranging furniture in her room. If her bed is 4 feet from one wall and 3 feet from another wall, how far apart are the two walls?
4. Ethan is building a sandbox for his little sister. If the sandbox is in the shape of a right triangle with one side measuring 6 feet and the other measuring 8 feet, how long is the diagonal side?
5. Sophia is drawing a diagonal line across a square piece of paper for a craft project. If each side of the square measures 15 centimeters, what's the length of the diagonal line she's drawing?
6. Lucas is building a triangular tent for a camping trip. If two sides of the tent measure 7 feet and 9 feet respectively, how long should the third side be to form a right triangle?
7. Olivia is setting up a rectangular garden in her backyard. If one side of the garden is 10 feet long and the other side is 24 feet long, how long is the diagonal distance from one corner to the opposite corner?
8. Daniel is setting up a diagonal clothesline in his backyard. If the distance between two posts is 8 meters, how long should the clothesline be to fit perfectly, forming a right triangle with the ground?
9. Sarah is arranging tiles in a square pattern on her patio. If each side of the square measures 12 inches, what's the length of the diagonal line connecting two opposite corners of the square?
10. Noah is setting up a triangular tent for a camping trip. If the height of the tent is 5 feet and the length of the base is 12 feet, how long should the diagonal side be to fit the tent poles perfectly?

