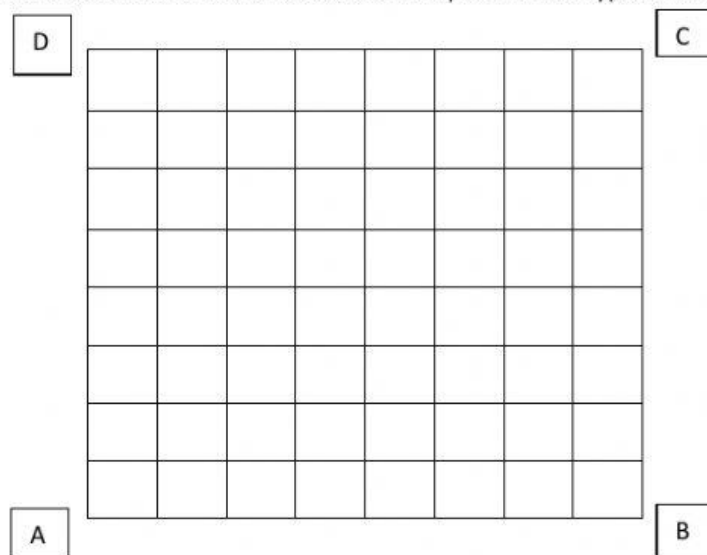# Build A Checkerboard Project

1. The checkerboard you will build today will be how many feet? _____

2. How many inches are in a foot? _____

3. How many inches are in four feet? _____

4. How many squares are there on one row of a checkerboard? _____

5. What formula will you use to calculate how many inches should each square be on the checkerboard? _____ How many inches should there be for each square?

6. How do you find the length of a side of a right triangle using the lengths of the other sides? _____
_____

7. Use the following diagram to calculate the distance from AC using the Pythagorean theorem _____

8. Which side(s) of the checkerboard could be created to represent the hypotenuse? _____

D   C

A   B

9. Use the data that you collected above to calculate the area of the checkerboard. _____

10. What is the total area of all of the red checkerboard squares combined? _____

Area = length x width	Pythagorean theorem = $A^2 + B^2 = C^2$
Area = ½ x base x height	

Created By: Chivas & Jordan Spivey