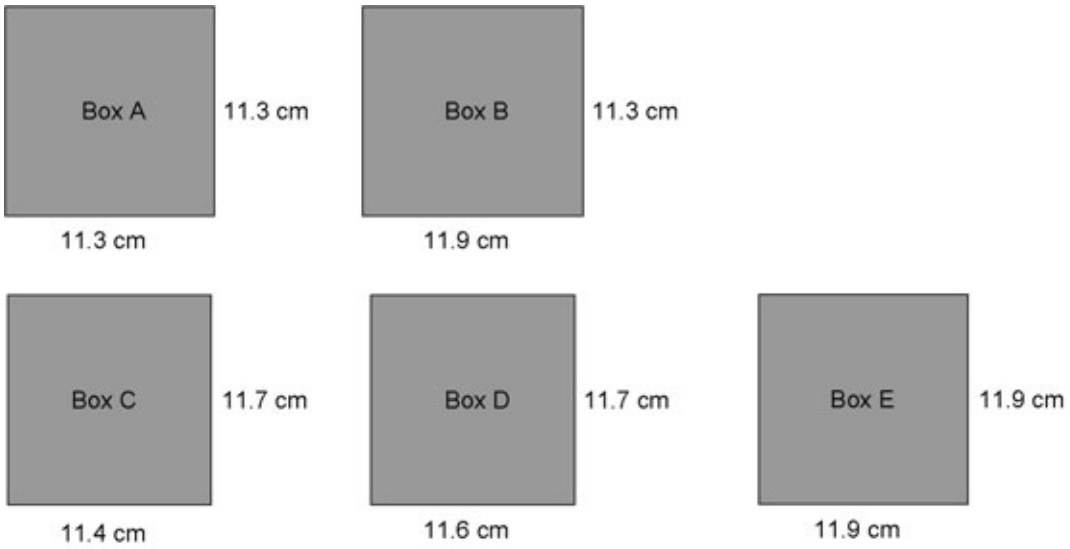
Name: _____ Date: _____

BLM 3–13

Section 3.3 Math Link

This worksheet will help you with the Math Link on page 100.

You have created a peg board game called Mind Buster. The square game board has a base area of 134 cm^2. You go to the store to get a box for storing the game. You find five boxes with the base dimensions shown.



1. a) If you are given the area of a square, how do you find the side length of the square? For example, if the area of a square is 49 cm^2, its side length is 7 cm.

b) What is an estimate for the side length of the square game board that has a base area of 134 cm^2? Give your answer to one decimal place.

c) Use a calculator to determine the side length of the square game board, to the nearest tenth of a centimetre.

2. a) Which boxes cannot store a game board with the dimensions you determined in #1c)?

b) Which box or boxes can store the game board? Explain how you know.

3. a) What is the smallest box that will hold the game board?

b) What are the dimensions of this box?

c) Which box would you choose? Why?