Warmup from Design and Measurement Workbook

JUNE 2015

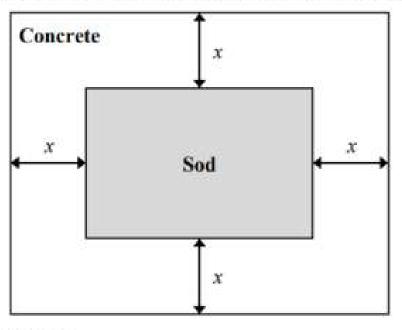
Select the best answer.
How many cubic yards are in 54 cubic feet?

A. 2 B. 3 C. 6 D. 18

One can of paint can cover an area of 200 ft².

How many cans need to be purchased to paint a 60 ft. by 8 ft. wall? [remember to round up!]

James is landscaping his 50 ft. by 40 ft. yard. He will construct a concrete walkway with a uniform width of x around the centre of the yard which is to be covered in sod, as illustrated below. (Diagram is not drawn to scale.)



You will need a blank sheet of paper!

Consider the following:

- The walkway must be at least 3.5 feet wide.
- The concrete must be poured 6 inches deep.
- The concrete costs \$3.00 per cubic foot, plus GST and PST.
- The sod costs \$0.40 per square foot, plus GST and PST.
- The budget for this project is \$2150.00.
 - a) Design a walkway that fits within the budget. Indicate the width of the walkway and the dimensions of the sod below.

Width of the walkway (x): _____ ft.

Dimensions of the sod: _____ ft. by _____ ft

b) Calculate the total cost of your design. (Note: GST 5%, PST 8%)