

From Area to Volume

Ages 9+, with multiplication; decimals extension

Name: _____ Date: _____

Sketch a rectangle, label length and width, and convert the depth to the same unit before multiplying.

12 ft x 10 ft = 120 sq ft. At 3 inches (0.25 ft) deep: $120 \times 0.25 = 30$ cu ft. $30 / 27$ approximately 1.11 cu yd.

8 ft x 6 ft: area =

At 3 inches deep: volume in cubic feet =

Convert that volume to cubic yards:

What would you check before ordering material?

Hypothetical learning example, not an order quantity. Do not enter truck, machinery, or excavation areas.

Workspace & adult notes

Answer check / discussion

1. 48 square feet
2. 12 cubic feet
3. Approximately 0.44 cubic yards
4. Actual shape, depths, compaction, material and supplier units.

What was clear? What would we change next time?