

Volume and Measurement Conversion: math test, Grade 5 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Conversions

/ 4 pts

Convert.

- a. 6 yd = ____ ft
- b. 64 oz = ____ lb
- c. 12 pt = ____ qt
- d. 2.4 km = ____ m

2 Volume formula

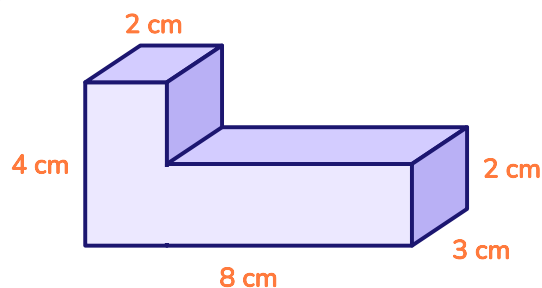
/ 3 pts

- a. Find the volume of a prism that is 9 cm long, 4 cm wide and 5 cm tall.
- b. A prism has a volume of 252 in^3 and a base area of 42 in^2 . Find its height.

3 A composite solid

/ 4 pts

Find the volume of this solid. All the angles are right angles.



- Cut the solid into two prisms and add their volumes.
- Check your answer by subtracting a missing piece from a big block.

4 The sandbox

/ 3 pts

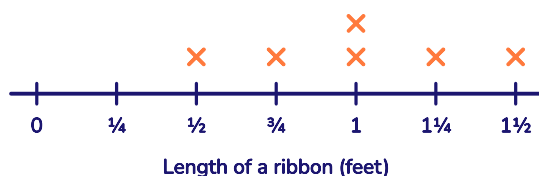
A sandbox is 8 ft long, 6 ft wide and 2 ft deep. Bags of sand each contain 4 ft^3 .

- Find the volume of the sandbox.
- How many bags are needed to fill it?

5 Ribbons on a line plot

/ 3 pts

The line plot shows the lengths, in feet, of 6 pieces of ribbon.



- How many pieces are longer than 1 ft?
- If all the ribbon is cut and shared equally among the 6 pieces, how long is each piece?

6

A fish tank

/ 3 pts

A fish tank is 30 cm long, 20 cm wide and 25 cm tall. Remember that 1 cm^3 holds 1 mL.

- Find its volume in cm^3 .
- Give its capacity in liters.
- Nina has poured in 12 L of water. How many milliliters are still needed to fill it?

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6 random questions, instant feedback.

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