

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

Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 Conversions

/ 4 pts

- a. $6 \times 3 = 18$, so 6 yd = **18 ft.** (1 pt)
- b. $64 \div 16 = 4$, so 64 oz = **4 lb.** (1 pt)
- c. $12 \div 2 = 6$, so 12 pt = **6 qt.** (1 pt)
- d. $2.4 \times 1,000 = 2,400$, so 2.4 km = **2,400 m.** (1 pt)

2 Volume formula

/ 3 pts

- a. $V = 9 \times 4 \times 5 = 36 \times 5 = 180$. The volume is **180 cm³.** (1 pt)
- b. $252 = 42 \times h$ (1 pt), so $h = 252 \div 42 = 6$. The height is **6 in.** (1 pt)

3 A composite solid

/ 4 pts

- a. Tall part: $2 \times 3 \times 4 = 24 \text{ cm}^3$ (1 pt). Low part: $6 \times 3 \times 2 = 36 \text{ cm}^3$ (1 pt). Total:
 $24 + 36 = 60 \text{ cm}^3$. (1 pt)
- b. Full block: $8 \times 3 \times 4 = 96$. Missing piece: $6 \times 3 \times 2 = 36$. $96 - 36 = 60 \text{ cm}^3$, the same result. (1 pt)

4 The sandbox

/ 3 pts

- a. $V = 8 \times 6 \times 2 = 96 \text{ ft}^3$. (1 pt)
- b. $96 \div 4 = 24$ (1 pt). **24 bags** are needed. (1 pt)

5 Ribbons on a line plot

/ 3 pts

- a. The pieces of $1\frac{1}{4}$ ft and $1\frac{1}{2}$ ft are longer than 1 ft: **2 pieces**. (1 pt)
- b. Total: $\frac{2 + 3 + 4 + 4 + 5 + 6}{4} = \frac{24}{4} = 6$ ft. (1 pt) Then $6 \div 6 = 1$: each piece is **1 ft** long. (1 pt)

6 A fish tank

/ 3 pts

- a. $V = 30 \times 20 \times 25 = 600 \times 25 = 15,000 \text{ cm}^3$. (1 pt)
- b. $15,000 \text{ mL} = 15 \text{ L}$. (1 pt)
- c. $15 - 12 = 3 \text{ L}$, which is **3,000 mL**. (1 pt)



Test yourself: quick challenge for Grade 5

Change level

Level : Grade 5

6 random questions, instant feedback.

 **Start the challenge**

 Keep exploring with Zyro

 Math tests

Volume and Measurement Conversion:
math test, Grade 5

 Math lessons

Volume and Measurement Conversion:
math lesson, Grade 5

 Math quizzes

Volume and Measurement Conversion:
math quiz, Grade 5

 Math tests

Geometry and the Coordinate Plane:
math test, Grade 5



Math tests

Adding and Subtracting Decimals: math test, Grade 5



Math lessons

Geometry and the Coordinate Plane: math lesson, Grade 5

Zyro vous emmène sur nos sites partenaires

Embarquez pour d'autres planètes du savoir et leurs applis.

Décollage