

Grade 5 Measurements & Data Worksheet

LET'S MAKE LEARNING FUN

- 1. Michelle has a reading table whose volume is 80 cubic feet. The length and width of the reading table are 5 ft and 4 ft respectively. Estimate the height of the rading table.
- 2. Leo has two boxes labeled A and B. Box A with dimensions of 3.6 cm × 22.7 cm × 18.3 cm Box B measures 8.1 cm × 14.6 cm × 22.9 cm. Which box has the greater volume?
- 3. Maxwell has a box with the dimensions of $11 \text{ in } \times 6 \text{ in } \times 12$ in. He has a rectangular prism-shaped oven whose volume is 800 cubic inches. Does the oven fit in the box?

Solution:	
Solution:	
Solution:	

4. Estimate the volume of each rectangular prism with the given measurements.

a. 21 in \times 20 in \times 20 in	d. 41 ft \times 18 ft in \times 60 ft
b. 6.4 m \times 6.1 m \times 2.5 m	e. 92 mm \times 16 mm \times 86 mm
c. 5.2 cm \times 9.8 cm \times 7.5 cm	f. 7.8 yd \times 17.3 yd \times 5.9 yd
Solution:	
a.	d.
b.	e.
с.	f.

5. Explain how you can estimate the volume of a bedroom if the bedroom is a rectangular prism and dimensions of the room are 9.5 m, 10 m, and 7.3 m. Estimate the volume of the room.

Solution:

- 6. Write either TRUE or FALSE to indicate whether the unit of measurement is a valid unit to measure volume or not.
 - a. cm^2
 - b. cubic inches

c. m^3

d. miles



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Solution: 4 ft

Solution: B

Solution: No

4. Estimate the volume of each rectangular prism with the given measurements. a. 21 in \times 20 in \times 20 in d. 41 ft \times 18 ft in \times 60 ft

b. 6.4 m \times 6.1 m \times 2.5 m	e. 92 mm \times 16 mm \times 86 mm
c. 5.2 cm \times 9.8 cm \times 7.5 cm	f. 7.8 yd \times 17.3 yd \times 5.9 yd
Solution:	
a. 8,000 cubic inches	d. 48,000 cubic feet
b. 108 cubic meters	e. 162,000 cubic millimetres
c. 400 cubic centimeters	f. 816 cubic yards

5. Explain how you can estimate the volume of a dining room if the dining room is a rectangular prism and dimensions of the room are given as: 9.5 m, 10 m, and 7.3 m. Estimate the volume of the room.

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Solution:

V = 9.5 \text{ m} \times 10 \text{ m} \times 7.3 \text{ m} is estimated

to:

V = 9.5 \text{ m} \times 10 \text{ m} \times 7.3 \text{ m} = 700 cubic meters
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6. Write either TRUE or FALSE to indicate whether the unit of measurement is a valid unit to measure volume or not.

	Solution:
a. cm^2	a. FALSE
b. cubic inches	b. TRUE
c. m^3	c. TRUE
d. miles	d. FALSE