

Volume of rectangular prisms (metric units)

Grade 5 Word Problems Worksheet

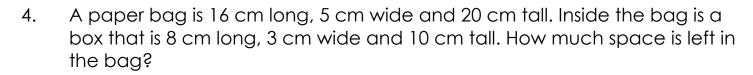
1.	A crate is 2 m long,	2 m wide and	4 m tall.	What is the	e volume	of the
	crate?					

2. A carton of juice is 16 cm long, 5 cm wide and 20 cm tall. What is the volume of the carton?

3. A cargo container is 5 m wide, 34 m long and 6 m tall. What is the volume of the cargo container?







5. A big locker is above a small locker. They are both 0.5 m wide and 0.6 m deep. The big locker is 1.2 m tall, and the small locker is half of the height of the big locker. What is the total volume of one big locker and one small locker?



Answers

- 1. $2 \times 2 \times 4 = 16$ The volume of the cube is 16 cubic meters.
- 2. $16 \times 5 \times 20 = 1,600$ The volume of the carton is 1,600 cubic centimeters.
- 3. $5 \times 34 \times 6 = 1,020$ The volume of the container is 1,020 cubic meters.
- 4. $16 \times 5 \times 20 8 \times 3 \times 10 = 1,600 240 = 1,360$ The space left in the bag is 1,360 cubic centimeters.
- 5. $0.5 \times 0.6 \times 1.2 + 0.5 \times 0.6 \times 1.2 \times \frac{1}{2}$ = 0.36 + 0.18 = 0.54The total volume of one big locker and one small locker is 0.54 cubic meters.