

Volume of rectangular prisms (metric units)

Grade 5 Word Problems Worksheet

1. There are 3 aquariums of different shapes in the ocean park. The rectangular aquarium is 4 m deep, 5 m long and 8 m wide. What is the volume of the rectangular aquarium?

2. The 2 water troughs were shaped like rectangular prisms. Each water trough is 4 m long, 4 m wide and 3.5 m high. What is the volume of one water trough?

3. Ben bought 10 boxes of soap and 3 packs of detergent powder. Each box of soap measures 8 cm long, 7 cm wide and 3 cm high. What is the volume of soap he bought?



Answers

- $4 \times 5 \times 8 = 160$
The volume of the rectangular aquarium is 160 cubic meters.
- $4 \times 4 \times 3.5 = 56$
The volume of one water trough is 56 cubic meters.
- $8 \times 7 \times 3 \times 10 = 1,680$
The volume of the 10 soap boxes is 1,680 cubic centimeters.
- $450 \div (5 \times 10) = 450 \div 50 = 9$
The water tank is 9 meters deep.
- $3 \times 4 \times 5 = 60$
 $9 \times 8 \times 10 = 720$
 $720 \div 60 = 12$
12 small earring boxes would fit inside the bigger box.