Name _____ Date _____ Period _____

LESSON 5-5 · WARM-UP

Warm-Up Practice

Determine the Volume of Rectangular Prisms

THE MOVE

what this page practices

Multiply three edge lengths, label in cubic units

Find the base area first, then multiply by the height. The order of the three factors does not change the product.

Multiply fractions and mixed numbers

Multiply the top numbers, then multiply the bottom numbers. Write a mixed number as a fraction first.

WORKED MODEL

we do this one together

Step 1	A prism is 4 cm long, 3 cm wide, and 2 cm tall.
Step 2	Base area = 4 × 3 = _____ square centimeters
Step 3	Volume = base area × height = 12 × 2 = _____
Step 4	Volume = _____ cubic centimeters

YOUR TURN

8 items · about 10 minutes

1. A prism is 5 cm long, 4 cm wide, and 3 cm tall. Volume = _____
ANSWER _____

2. A prism is 6 cm long, 2 cm wide, and 5 cm tall. Volume = _____
ANSWER _____

3. A prism is 10 m long, 3 m wide, and 4 m tall. Volume = _____
ANSWER _____

4. A cube has edges of 3 ft. Volume = _____
ANSWER _____

5. A prism is 1/2 ft long, 1/3 ft wide, and 6 ft tall. Volume = _____
ANSWER _____

6. A prism is 2 1/2 cm long, 4 cm wide, and 3 cm tall. Volume = _____
ANSWER _____

7. A prism has a volume of 72 cubic inches and a base area of 12 square inches. Its height = _____
ANSWER _____

8. A shipping box is 8 in long, 5 in wide, and 4 in tall. How much space does it hold? _____
ANSWER _____