

NAME

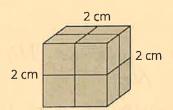
DATE

PERIOD

Unit 1, Lesson 17

Practice Problems

1. What is the volume of this cube?



2.2.2 = 8cm

2. a. Decide if each number on the list is a perfect square.

- A 16 4.4
- E. 125
- b. Write a sentence that explains your reasoning.
- number times itself

- B. 20
- (F.) 144 12.12
- (). 25 Si5
- (G) 225

- (B. 100 10.10
- (H.) 10,000 /00 /00

3. a. Decide if each number on the list is a perfect cube.

- 1-1:1
- B. 3

- 2,2,2
- NO

- (P. 27 3.3.3
- G. 100 No
- (H) 125 5.5.5



b. Explain what a perfect cube is.

A number multiplied by itself 3 times makes a perfect cube x.x.x 4. a. A square has side length 4 cm. What is its area? 16 cm²



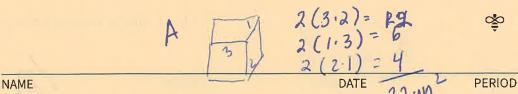
b. The area of a square is 49 m^2 . What is its side length? 7 m



c. A cube has edge length 3 in. What is its volume?



3.3.3=274n 3



GRADE 6 MATHEMATICS

5A = 4(6) + 2(1)

24+2=26 un

5. Prism A and Prism B are rectangular prisms. Prism A is 3 inches by 2 inches by 1 inch. Prism B is 1 inch by 1 inch by 6 inches.

Select all statements that are true about the two prisms.

Volume 3-2-1=64p3

A. They have the same volume.

B. They have the same number of faces.

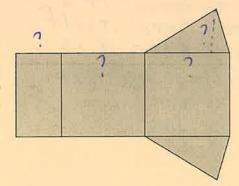
C. More inch cubes can be packed into Prism A than into Prism B. No - 54Me Volume

D. The two prisms have the same surface area.

E.) The surface area of Prism B is greater than that of Prism A. $26 \text{ up}^2 > 22 \text{ up}^2$

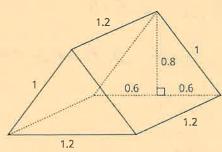
6. a. What polyhedron can be assembled from this net?

Triangular Prism



b. What information would you need to find its surface area? Be specific, and label the diagram as needed.

See? at leftessentially the lengths needed to 12 find the areas of the rectangles and A.



7. Find the surface area of this triangular prism. All measurements are in meters. (6°PS! 2 $\Delta = 2(1.2 \cdot 8 = 2) = 9.6 \text{ m}^2$ - 2 (1.1.2) = 2.4m2 = 1.2.1.2 = 1.44 m² 4.8m2