Answers

5th Grade Unit 1 Study Guide

NAME:

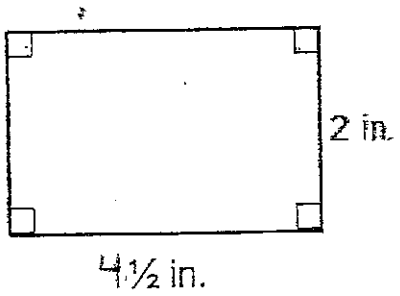
① Insert parentheses when necessary to make the number sentance true.

a. $11 + (4 * 6) = 35$ → don't really need them

b. $(24 \div 10) \div 2 = 17$

②

Find the ~~perimeter~~ and area of the rectangle shown below.



Number Sentence(s): $4\frac{1}{2} \times 2 = 9$ or $4 \times 2 = 8$
$\frac{1}{2} \times 2 = 1$
9

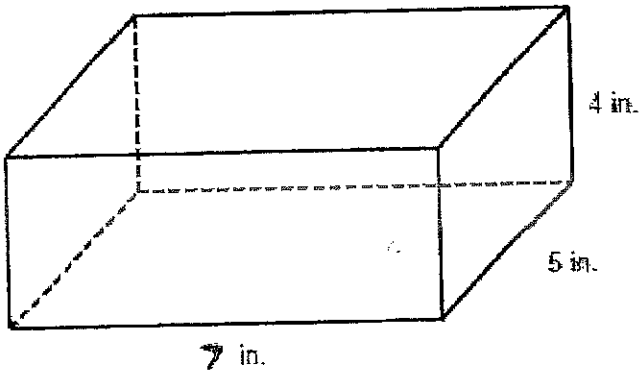
Area = 9 in.^{2} (unit)

③ Find each sum.

a. $4 \times (7 + 4) =$ 44
4 × 11

b. $55 \div (3 \times 8) =$ 79
55 r 24

4 Find the volume of the rectangular prism.

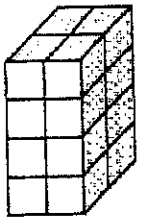


Volume = $140 in^3$
(unit)

Volume of a prism: V = B * h or V = l * w * h

5

The prism shown is made up of centimeter cubes.



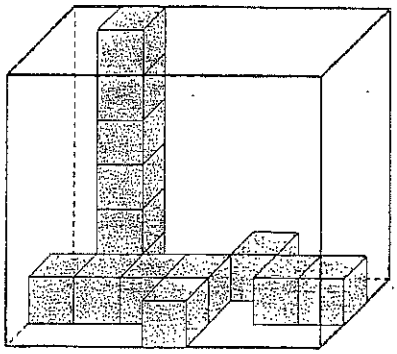
a. What is the area of the base of the prism? $4 un^2$
(unit)

b. What is the height of the prism? 4 un
(unit)

c. What is the volume of the prism? $16 un^3$
(unit)

6

L=7
W=3
H=6



How many cubes would it take to fill this prism?

126 cubes

What is the volume of this prism?

126 cubic units

same!

7 Circle the items that have volume:

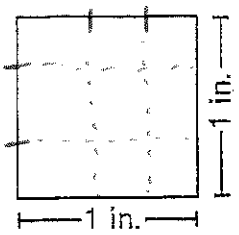
box of tissues	straight line	polka dot
tub full of water	can of soda	a drawing of a box

8 Jack was counting his baseball cards. He started with 42 cards. Then his mother gave him 16 more. His brother really wanted some so he gave half of his cards to his brother. Write an expression that models the amount of baseball cards he gave his brother.

Expression: (42+16) ÷ 2

9 How many squares with side length $\frac{1}{3}$ inch will fit into 1 square inch? You may want to draw a picture to help you.

9 squares



10 a. Jonah filled a box and said its volume was 14 balls.
Shandra filled the same box and said its volume was 17 cubes.

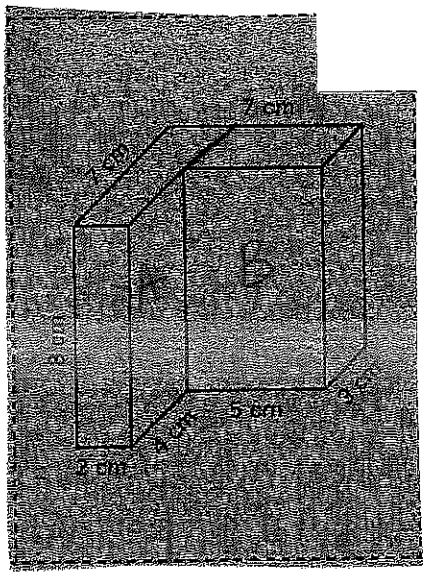
Explain how Jonah and Shandra could get different volumes for the same box.

They used different units to measure.

b. Are balls or cubes better for measuring the volume of a rectangular prism? Why?

cubes! They have all the same length sides leave no gaps, don't overlap, and fit perfectly into corners.

(11) Find the volume of this figure.



A

L - 2

W - 7 (4+3)

H - 8

$V = 112\ cm^3$

$l \times w \times h$

+

B

L - 5

W - 3

H - 8

$V = 120\ cm^3$

$l \times w \times h$

Total volume:

$232\ cm^3$