odd #'s: 1, 3, 5, 7, 9, 11, 13, 15

Pg 1

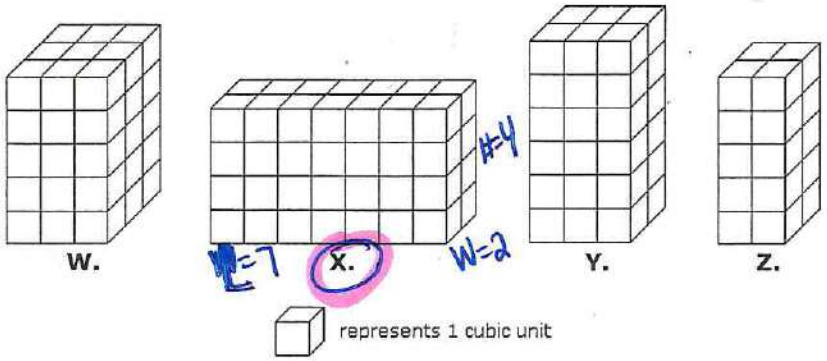
Benchmark 2 Study Guide- Units 5-7

Question 1 .

The prisms given below are packed with unit cubes. Which of these prisms has a volume equal to 56 cubic units?

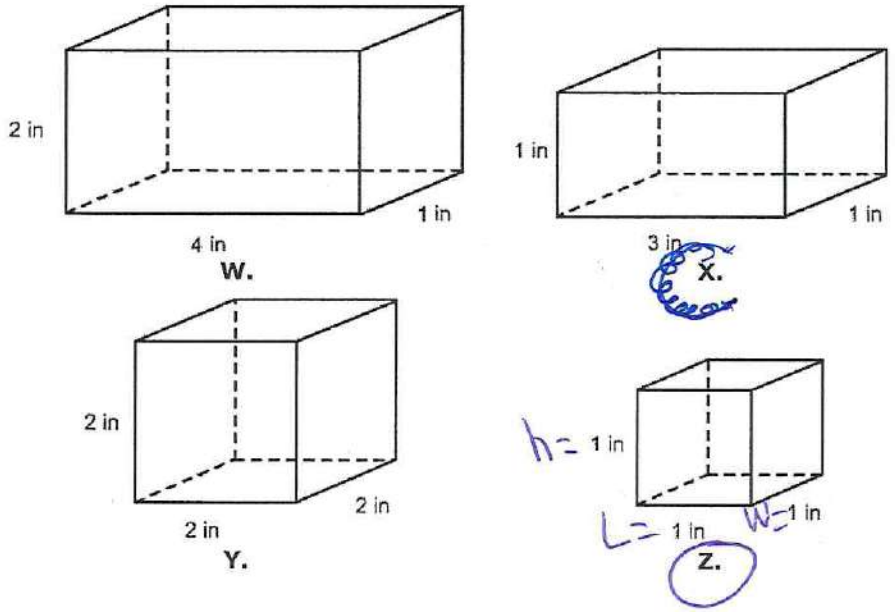
7 x 8 = 56

7 x 2 x 4



Question 2 .

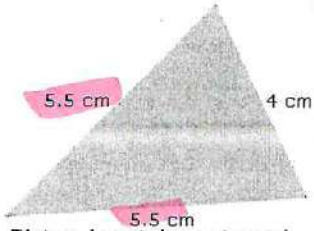
Which figure is a unit cube?



A. Y
B. Z
C. X
D. W

Question 3 .

The triangle fits which of the following classifications?



Picture is not drawn to scale.

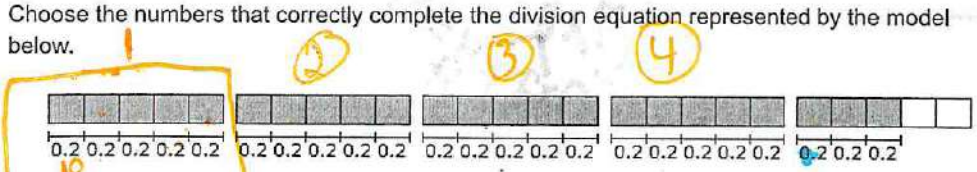
I. Equilateral
II. Right
III. Acute = ALL angles < 90°
IV. Isosceles = 2 sides equal

A. III only
B. III and IV
C. I and IV
D. II and III

Question 4 .

Directions: Select the correct answer from each drop-down menu.

Choose the numbers that correctly complete the division equation represented by the model below.

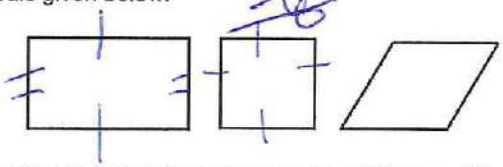


4 ÷ 0.2 = 23

Question 5 .

Directions: Write your response in the box.

Look at the quadrilaterals given below.



Part A: List three categories that are represented by the attributes of the quadrilaterals given. There must be at least one category that includes all three quadrilaterals.

Part B: Explain why the categories in Part A were selected.

Quadrilateral - All have four sides

Parallelogram - Two sets of opposite parallel sides

Polygon - Closed figure + straight sides

Part B: The categories in Part A were selected because they all have four sides, two sets of opposite parallel si and they are all polygons.

Question 6 .

Which of the following is equal to 18.3 ÷ 3?

A. (18 ÷ 3) + (3 ÷ 0.3)

B. (18 ÷ 3) - (3 ÷ 3)

C. (18 ÷ 3) - (0.3 ÷ 3)

D. (18 ÷ 3) + (0.3 ÷ 3)

Pg 3

Question 7 .

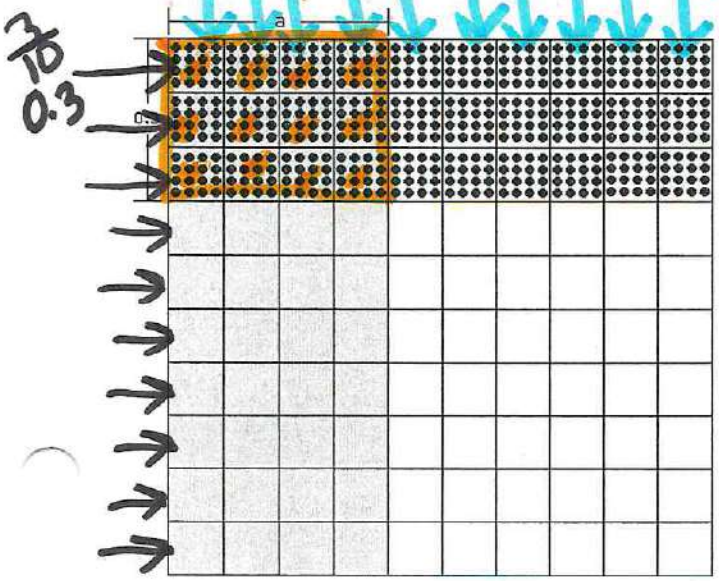
$2.6 \times 2.6 = 6.76$

Using the multiplication equation above, solve the division equation below.

$6.76 \div 2.6 = ?$ 2.6

Question 8 .

Rita and Jan are working on a school project together. Rita has completed 0.3 of her portion, and Jan has completed a portion as well. Use the model to complete the equation below and find how much of the total project Rita and Jan have completed.



3/10 = 0.3

4/10 = 0.4

0.3 × 0.4 = ☐

Rita and Jan have completed 0.12 of the total project.

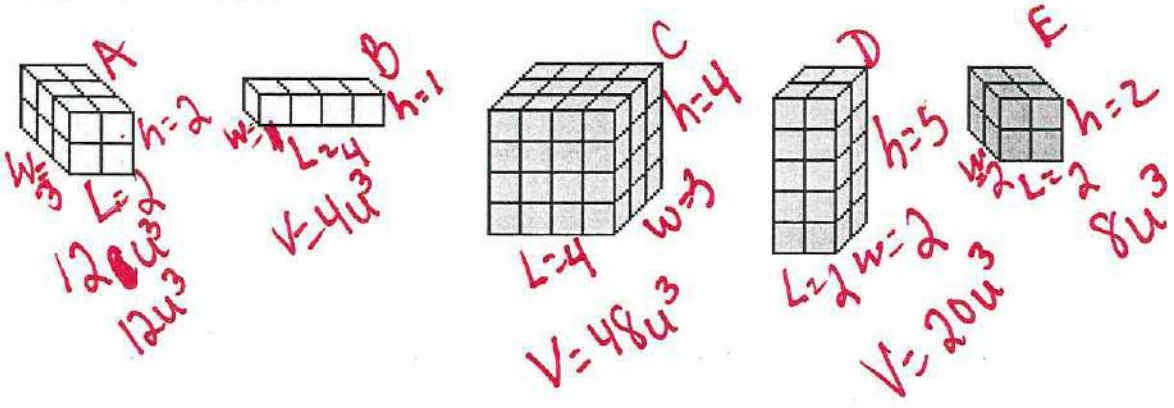
12/100

0.12

0.3 × 0.4 = 0.12

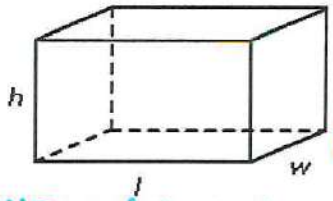
Question 9 .

Using the least number of prisms below, choose the prisms that could be joined together to have a volume of 68 cubic units.



Question 10 .

In the rectangular prism above, l = 31 inches, w = 15 inches, and h = 16 inches. What is the volume of the rectangular prism?



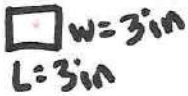
V = 7,440 cubic inches
V = 7,440 inches cubed

31 x 15 x 16
31 x 240
240 x 31
240
+7200
7440 in³

Question 11 .

A right rectangular prism has a square base with side lengths of 3 inches and a height of 9 inches. What is the volume of the right rectangular prism?

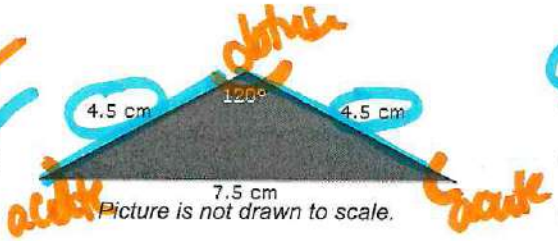
81 in³



Question 12 .

The triangle fits which of the following classifications?

I. Obtuse
II. Isosceles
III. Equilateral
IV. Scalene



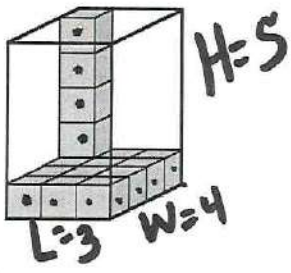
- A. I and II
- B. II and III
- C. II only
- D. II and IV

Question 13 .

The rectangular prism shown below is packed with unit cubes with side length 1 inch.

What is the volume of the rectangular prism when it is fully packed if there are no gaps or overlaps in the unit cubes?

- A. 12 cubic inches
- B. 40 cubic inches
- C. 30 cubic inches
- D. 60 cubic inches



represents 1 cubic inch

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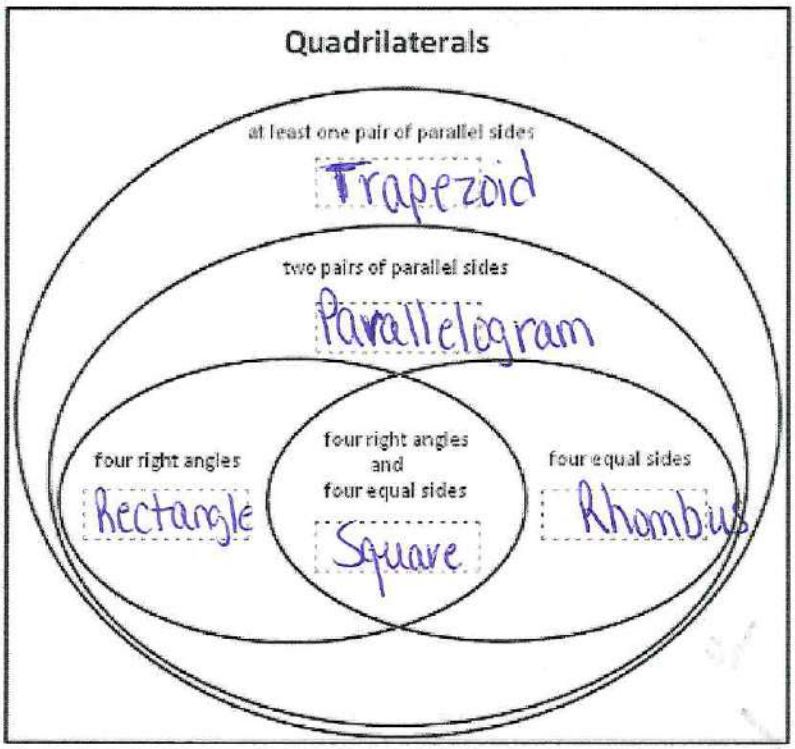
Question 14 .

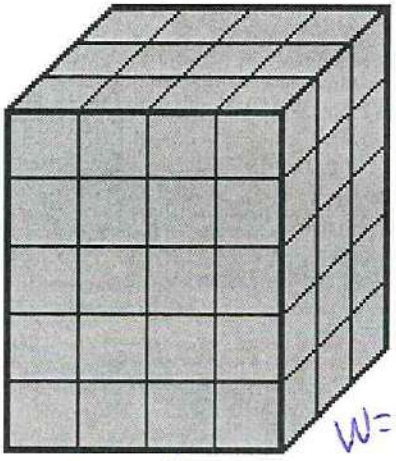
Complete the Venn diagram below by placing the correct terms in the boxes.

parallelogram trapezoid pentagon rectangle triangle square rhombus



Question 15 . This rectangular prism is packed with 60 unit cubes, without any gaps or overlaps.

What is the volume of this rectangular prism?



$60\ u^3$
60 unit cubes
60 cubic units

$4 \times 3 \times 5 = 60$ unit cubes

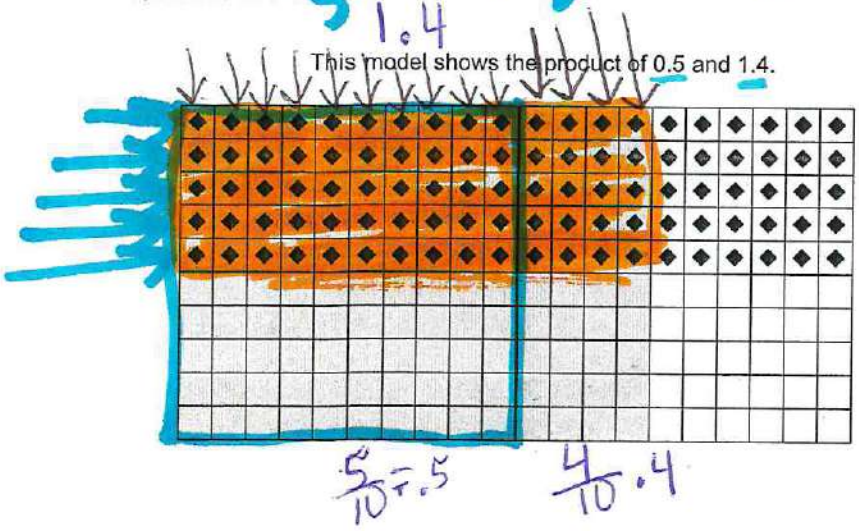
12×5

60

$V = L \times w \times h$

Question 16 .

This model shows the product of 0.5 and 1.4.



Which equation shows the product of 0.5 and 1.4?

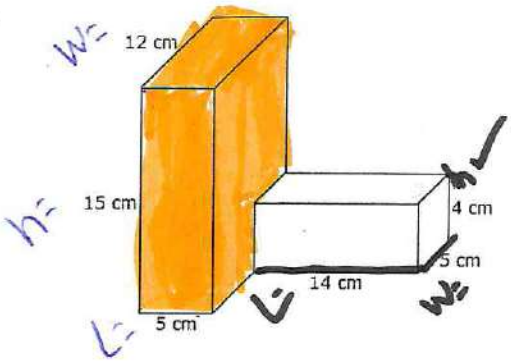
A. $0.5 \times 1.4 = 7$

B. $0.5 \times 1.4 = 0.19$

C. $0.5 \times 1.4 = 0.70$

D. $0.5 \times 1.4 = 1.9$

Question 17 . Mia's new desktop caddy is made of two rectangular prisms as shown below.



Complete the equation that can be used to find the total volume of the desktop ca

(15 cm x 12 cm x 5 cm) + (70 sq cm x 4 cm) = ▾ cu cm

Question 18 .

The rectangular prism is packed with 36 unit cubes, without any gaps or overlaps.

The volume of the rectangular prism is ☐ cubic units.