

Name Answer Key Test on Monday 4/14



Assessment Practice

1. Julio used unit cubes to make a rectangular prism. What is the volume of the prism?



1 cube = 1 cubic unit

- (A) 18 cubic units (B) 72 cubic units
(C) 54 cubic units (D) 108 cubic units

2. Select the possible dimensions for a prism with each given volume.

| | 3 cm, 4 cm, 5 cm | 3 cm, 3 cm, 5 cm | 2 cm, 4 cm, 9 cm | 2 cm, 4 cm, 7 cm |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 45 cm ³ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 56 cm ³ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 cm ³ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 72 cm ³ | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

3. A. A swimming pool is 50 meters long, 15 meters wide, and 3 meters deep. What is the volume of the pool?

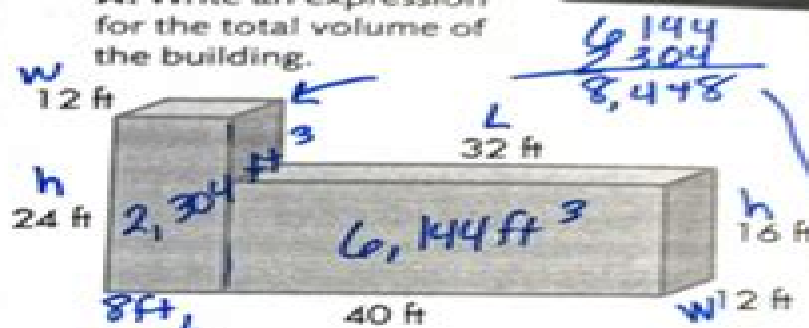
- (A) 4,500 cubic meters 50 x 15 x 3
(B) 2,250 cubic meters
(C) 900 cubic meters
(D) 750 cubic meters

- B. After filling the pool for several minutes, the water is 1 meter deep. What is the volume of water in the pool?

750 m³
50 x 15 x 1

4. A small building has the dimensions shown.

- A. Write an expression for the total volume of the building.



$(8 \times 12 \times 24) + (32 \times 12 \times 16)$

- B. What is the volume of the building?

8,448 ft³

5. A. Choose all the expressions that could NOT be used to find the volume of the bale of hay.



- (A) ☒ 100×40 (B) ☐ $(100 \times 40) \times 20$
(C) ☐ $4,000 \times 20$ (D) ☒ $(100 \times 40) + 20$
(E) ☒ $(100 + 40) + 20$

- B. Another 10 cm of hay is added to the top of the bale. What is the volume of the bale of hay now?

120,000 cm³ 100 x 40 x 30

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M Tight



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