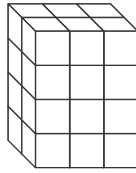


Name \_\_\_\_\_

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

1 cube = 1 cubic unit



- Ⓐ 24 cubic units      Ⓒ 8 cubic units  
Ⓑ 12 cubic units      Ⓓ 6 cubic units

2. Select the possible dimensions for a prism with each given volume. **1 point**

	6 ft, 2 ft, 5 ft	4 ft, 7 ft, 1 ft	3 ft, 5 ft, 8 ft	4 ft, 4 ft, 9 ft
28 ft <sup>3</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120 ft <sup>3</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
144 ft <sup>3</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60 ft <sup>3</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. A. A storage shed is 9 feet wide, 15 feet long, and 11 feet tall. What is the volume of the shed? **1 point**

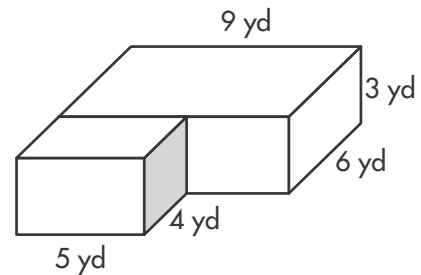
- Ⓐ 35 cubic feet  
Ⓑ 743 cubic feet  
Ⓒ 1,485 cubic feet  
Ⓓ 1,500 cubic feet

- B. To weigh the shed down during a storm, a 1-foot layer of sand is added to the bottom of the shed. What is the volume of the sand? **1 point**

**135 cubic feet**

4. The living room in a new house has the dimensions shown.

- A. Write an expression for the total volume of the room. **1 point**

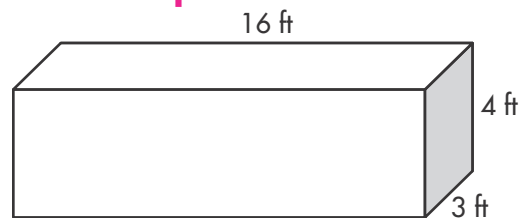


**$(9 \times 6 \times 3) + (5 \times 4 \times 3)$**

- B. What is the volume of the room? **1 point**

**222 cubic yards**

5. A. Choose all the expressions that could **NOT** be used to find the volume of the box. **1 point**

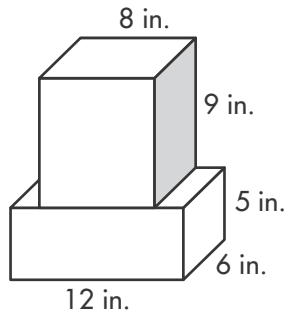


- $7 \times 16$         $16 \times 4 \times 3$   
  $12 \times 16$         $3 \times 64$   
  $16 + 4 + 3$

- B. A similar box has the same dimensions except being only half as tall. What is the volume of the smaller box? **1 point**

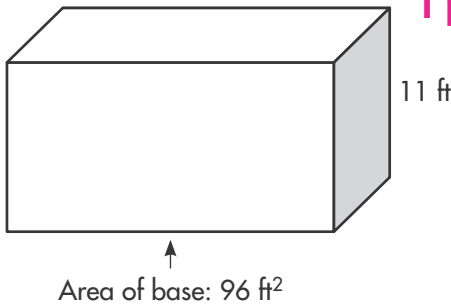
**96 ft<sup>3</sup>**

6. Kyle needs to fill the wooden platform he made to make it more stable. What is the volume of the platform? **1 point**



- (A) 46 cubic inches  
 (B) 92 cubic inches  
 (C) 529 cubic inches  
 (D) 792 cubic inches

7. A. What is the volume of the room shown? **1 point**



**1,056 cubic feet**

- B. Which equation was used to find the volume of the room? **1 point**

- (A)  $V = \ell \times w$   
 (B)  $V = b \times h$   
 (C)  $V = \ell \times w \times h$   
 (D)  $V = b \times b \times h$

8. A brick wall will be shaped like a rectangular prism. The wall needs to be 3 feet tall, and the builders have enough bricks for the wall to have a volume of 330 cubic feet.

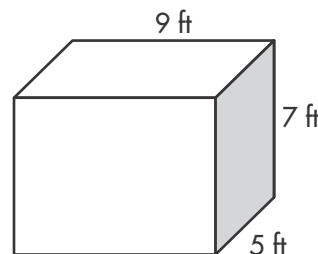
What does the area of the base of the wall need to be for the given volume and height? Give one pair of possible whole-number dimensions for the base. **2 points**

**110 ft<sup>2</sup>; Possible answers:  
 1 ft × 110 ft, 2 ft × 55 ft,  
 5 ft × 22 ft, 10 ft × 11 ft**

9. One cereal box has a volume of 462 cubic inches. Another cereal box measures 12 inches tall, 8 inches long, and 3 inches wide. What is the combined volume of the two cereal boxes? **1 point**

**750 cubic inches**

10. Select all the expressions that can be used to find the volume of the box in cubic feet. **1 point**



- $35 \times 9$         $(5 \times 7) + 9$   
  $12 \times 9$         $45 \times 7$   
  $(9 \times 7) \times 5$