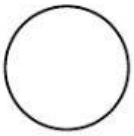
Unit 2

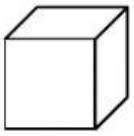
Unit 2 Assessment, Form A

Name .....

1. Which of these figures has volume? Choose all that apply.

A. 

B. 

C. 

D. 

2. For which situation would you measure using unit cubes?

A. the amount of floor space covered by a carpet

B. the distance between two classrooms

C. the amount of wall space taken up by a window

D. the amount of space inside a box

3. Mya is filling a jumping pit with foam blocks. The area of the bottom of the pit is 168 square feet. If the height of the jumping pit is 4 feet, what is the volume of the pit?

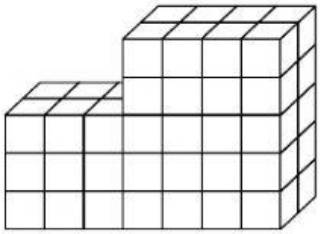
A. 172 cubic feet

B. 672 cubic feet

C. 1,344 cubic feet

D. 2,688 cubic feet

4. What is the volume of the figure?



A. 54 cubic units

B. 56 cubic units

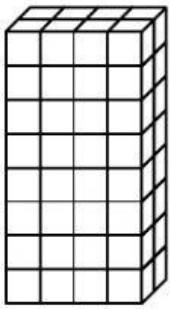
C. 58 cubic units

D. 60 cubic units

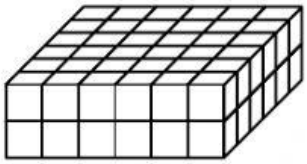
LIVEWORKSHEETS

5. Which rectangular prisms have a volume of 72 cubic units? Choose all that apply.

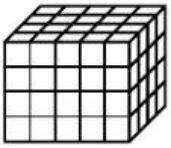
A.



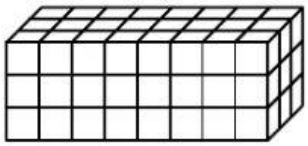
B.



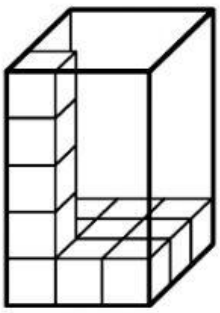
C.



D.



6. Seth partially fills a rectangular prism with unit cubes, as shown.



The volume of the rectangular prism is _____ cubic units.

7. The volume of a rectangular prism is 80 cubic inches. Which could be the dimensions of the prism? Choose all that apply.

A. length = 40 inches, width = 15 inches, height = 25 inches

B. length = 8 inches, width = 5 inches, height = 2 inches

C. length = 10 inches, width = 2 inches, height = 4 inches

D. length = 30 inches, width = 20 inches, height = 30 inches

E. length = 20 inches, width = 4 inches, height = 1 inch

LIVEWORKSHEETS

Unit 2 Assessment, Form A (continued)

Name _____

8. Lydia's school box is 10 inches long, 8 inches wide, and 4 inches high. What is the volume of the school box?

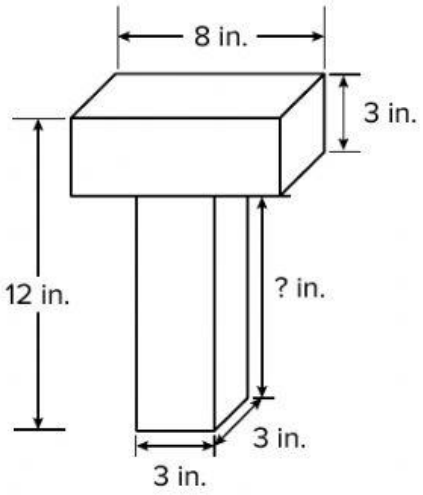
A. 22 cubic inches

B. 24 cubic inches

C. 320 cubic inches

D. 480 cubic inches

9. What is the volume of the T?



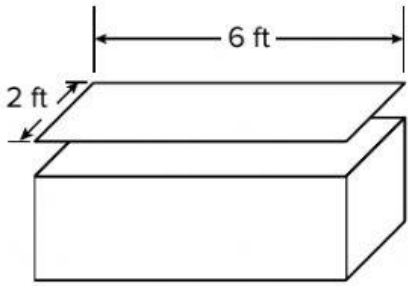
A. 288 cubic inches

B. 153 cubic inches

C. 105 cubic inches

D. 288 cubic inches

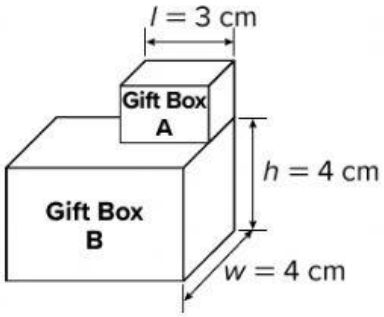
10. A toy chest has a volume of 48 cubic feet. How tall is the toy chest?



The toy chest is _____ feet tall

LIVEWORKSHEETS

11. The two gift boxes have a combined volume of 108 cubic centimeters. The dimensions of Gift Box A are half the dimensions of Gift Box B.



Which statement about the gift boxes is true?

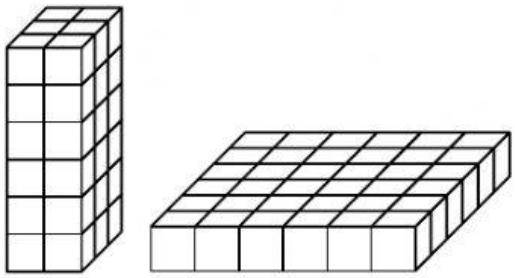
A. The volume of Gift Box A is 7 cubic cm, and the volume of Gift Box B is 14 cubic cm.

B. The volume of Gift Box A is 12 cubic cm, and the volume of Gift Box B is 64 cubic cm.

C. The volume of Gift Box A is 12 cubic cm, and the volume of Gift Box B is 96 cubic cm.

D. The volume of Gift Box A is 36 cubic cm, and the volume of Gift Box B is 72 cubic cm.

12. Janelle and Robert each build a figure using centimeter cubes.



Janelle's figure

Robert's figure

Janelle says that her figure has greater volume than Robert's figure because it is taller. Is Janelle correct? Explain.

LIVEWORKSHEETS

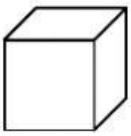
Unit 2

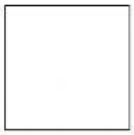
Unit 2 Assessment, Form B

Name .....

1. Which of these figures has volume? Choose all that apply.

A. 

B. 

C. 

D. 

2. For which situation would you measure using unit cubes? Choose all that apply.

A. the amount of water in a fish tank

B. the distance between two towns

C. the amount of wall space covered by a picture

D. the amount of space inside a refrigerator

3. Marie is filling a jumping pit with foam blocks. The area of the bottom of the pit is 144 square feet. If the height of the jumping pit is 3 feet, what is the volume of the pit?

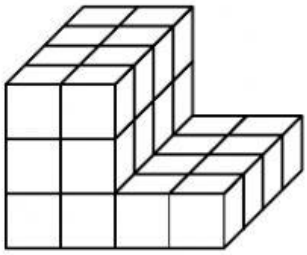
A. 147 cubic feet

B. 432 cubic feet

C. 864 cubic feet

D. 1,296 cubic feet

4. What is the volume of the figure?



A. 30 cubic units

B. 32 cubic units

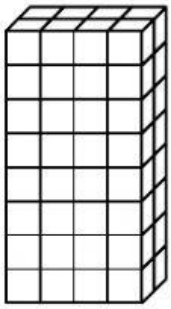
C. 34 cubic units

D. 36 cubic units

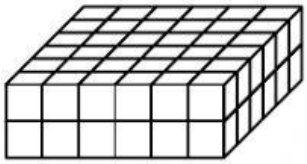
LIVEWORKSHEETS

5. Which rectangular prisms have a volume of 72 cubic units? Choose all that apply.

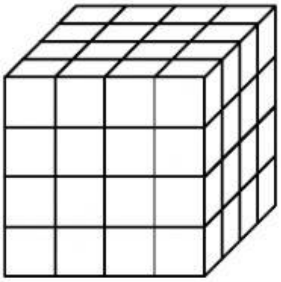
A.



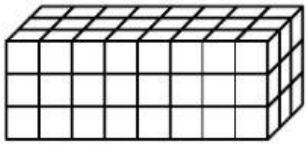
B.



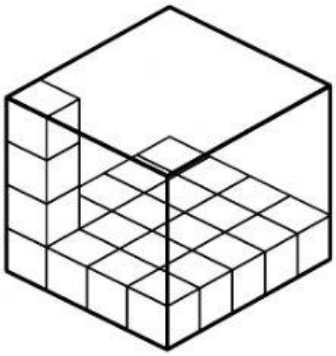
C.



D.



6. Sari partially fills a rectangular prism with unit cubes.



The volume of the rectangular prism is _____ cubic units.

7. The volume of a rectangular prism is 60 cubic inches. Which could be the dimensions of the prism? Choose all that apply.

A. length = 30 inches, width = 15 inches, height = 15 inches

B. length = 20 inches, width = 20 inches, height = 20 inches

C. length = 20 inches, width = 3 inches, height = 1 inches

D. length = 10 inches, width = 2 inches, height = 3 inches

E. length = 6 inches, width = 5 inches, height = 2 inches

LIVEWORKSHEETS

Unit 2 Assessment, Form B (continued)

Name _____

8. Lydia's school box is 12 inches long, 9 inches wide, and 6 inches high. What is the volume of the school box?

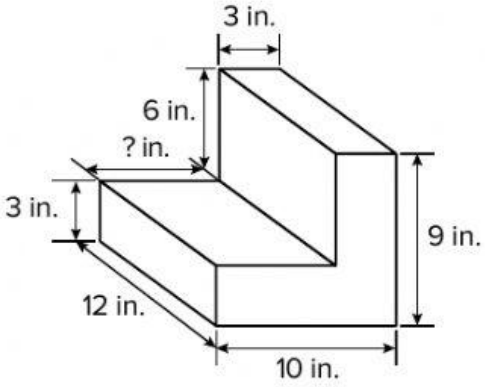
A. 25 cubic inches

B. 432 cubic inches

C. 480 cubic inches

D. 648 cubic inches

9. What is the volume of the bench?



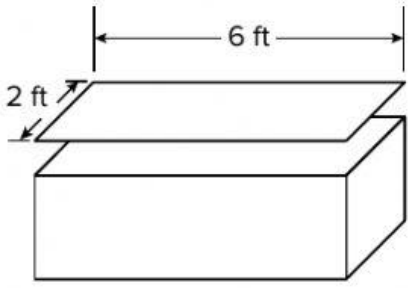
A. 378 cubic inches

B. 540 cubic inches

C. 576 cubic inches

D. 684 cubic inches

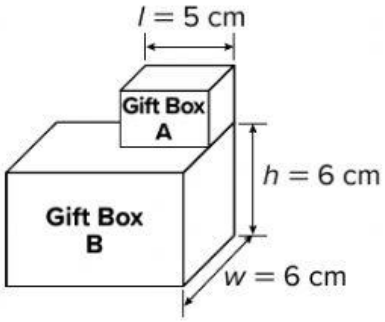
10. A toy chest has a volume of 36 cubic feet. How tall is the toy chest?



The toy chest is _____ feet tall

LIVEWORKSHEETS

11. The two gift boxes have a combined volume of 405 cubic centimeters. The dimensions of Gift Box B are twice the dimensions of Gift Box A.



Which statement about the gift boxes is true?

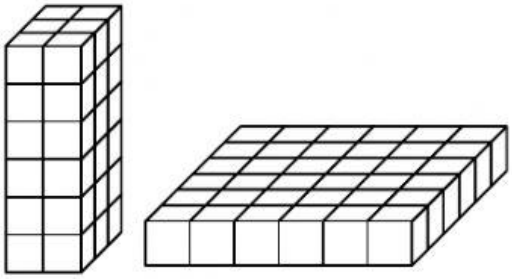
A. The volume of Gift Box A is 11 cubic cm, and the volume of Gift Box B is 22 cubic cm.

B. The volume of Gift Box A is 45 cubic cm, and the volume of Gift Box B is 180 cubic cm.

C. The volume of Gift Box A is 45 cubic cm, and the volume of Gift Box B is 360 cubic cm.

D. The volume of Gift Box A is 135 cubic cm, and the volume of Gift Box B is 270 cubic cm.

12. Janelle and Robert each build a figure using centimeter cubes.



Janelle's figure

Robert's figure

Robert says that his figure has greater volume than Janelle's figure because it has a bigger base. Is Robert correct? Explain.

LIVEWORKSHEETS