

# TAHNOON BIN MOHAMMED (2020-2021)

## MATH QUIZ (GRADE 6) - TERM 3 CHAPTER 10 - VOLUME AND SURFACE AREA

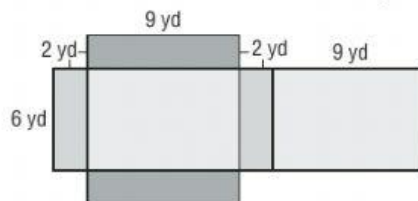
Write the letter for the correct answer in the blank at the right of each question.

1. A rectangular inflatable swimming pool is  $2\frac{4}{5}$  yards long, 2 yards wide, and  $\frac{3}{5}$  yard tall. What is the volume of the pool? Round to the nearest tenth.

A. 3.4 yd<sup>3</sup>                      C. 17.0 yd<sup>3</sup>  
B. 5.4 yd<sup>3</sup>                      D. 22.0 yd<sup>3</sup>

1. \_\_\_\_\_

2. What is the surface area of the rectangular prism below?

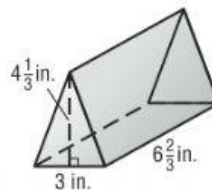


F. 17 yd<sup>2</sup>                      H. 108 yd<sup>2</sup>  
G. 84 yd<sup>2</sup>                      I. 168 yd<sup>2</sup>

2. \_\_\_\_\_

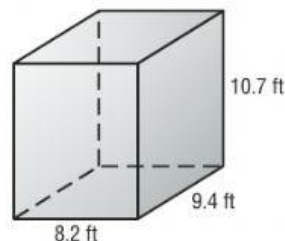
For Exercises 3 and 4, find the volume of each figure. Round to the nearest tenth if necessary.

3. A. 28.9 in<sup>3</sup>                      C. 57.8 in<sup>3</sup>  
B. 43.3 in<sup>3</sup>                      D. 86.7 in<sup>3</sup>



3. \_\_\_\_\_

4. F. 824.8 ft<sup>3</sup>                      H. 412.4 ft<sup>3</sup>  
G. 530.8 ft<sup>3</sup>                      I. 28.3 ft<sup>3</sup>



4. \_\_\_\_\_

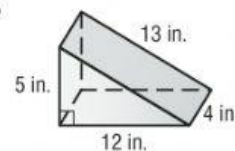
5. A storage container is in the shape of a rectangular prism. The container has a length of 5 feet, a width of 9 feet, and a height of 8 feet. What is the surface area of the container?

A. 360 ft<sup>2</sup>      B. 314 ft<sup>2</sup>      C. 157 ft<sup>2</sup>      D. 22 ft<sup>2</sup>

5. \_\_\_\_\_

6. What is the surface area of the triangular prism?

F. 150 in<sup>2</sup>                      H. 240 in<sup>2</sup>  
G. 180 in<sup>2</sup>                      I. 3,120 in<sup>2</sup>

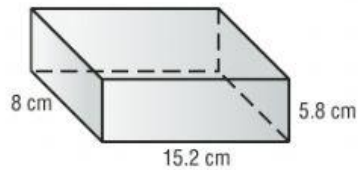


6. \_\_\_\_\_

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7. What is the volume of the prism?



7. \_\_\_\_\_

- A.  $29 \text{ cm}^3$                       C.  $512.3 \text{ cm}^3$   
B.  $87 \text{ cm}^3$                       D.  $705.3 \text{ cm}^3$

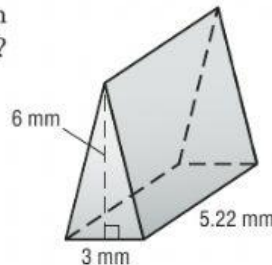
8. A department store wraps gifts for its customers. What is the amount of wrapping paper it would take to wrap a gift box with a width of 12 inches, a height of 4 inches, and a length of 16 inches?

- F.  $768 \text{ in}^2$                       H.  $512 \text{ in}^2$   
G.  $608 \text{ in}^2$                       I.  $304 \text{ in}^2$

8. \_\_\_\_\_

9. A triangular prism has the dimensions shown at the right. What is the volume of the prism? Round to the nearest tenth if necessary.

- A.  $187.9 \text{ mm}^3$                       C.  $47.0 \text{ mm}^3$   
B.  $94.0 \text{ mm}^3$                       D.  $42.7 \text{ mm}^3$



9. \_\_\_\_\_

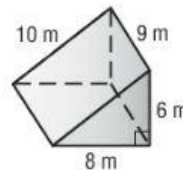
10. A paperweight in the shape of a square pyramid has a side length of 2.7 inches. The slant height is 2.5 inches. What is the surface area of the paper weight?

- F.  $18.2 \text{ in}^2$                       H.  $20.79 \text{ in}^2$   
G.  $19.75 \text{ in}^2$                       I.  $34.29 \text{ in}^2$

10. \_\_\_\_\_

11. What is the surface area of the triangular prism?

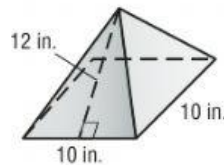
- A.  $216 \text{ m}^2$                       C.  $264 \text{ m}^2$   
B.  $240 \text{ m}^2$                       D.  $312 \text{ m}^2$



11. \_\_\_\_\_

12. What is the surface area of the square pyramid?

- F.  $160 \text{ in}^2$                       H.  $340 \text{ in}^2$   
G.  $240 \text{ in}^2$                       I.  $1,200 \text{ in}^2$



12. \_\_\_\_\_