

TAHNOON BIN MOHAMMED (2020-2021)

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

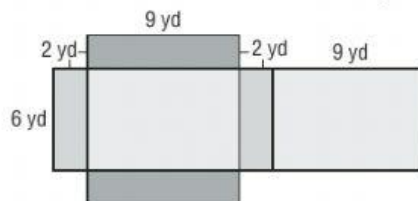
Write the letter for the correct answer in the blank at the right of each question.

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^3 C. 17.0 yd^3
B. 5.4 yd^3 D. 22.0 yd^3

1. _____

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

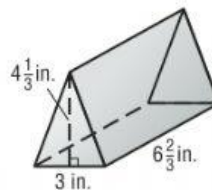


F. 17 yd^2 H. 108 yd^2
G. 84 yd^2 I. 168 yd^2

2. _____

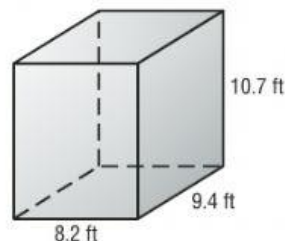
For Exercises 3 and 4, find the volume of each figure. Round to the nearest tenth if necessary.

3. A. 28.9 in^3 C. 57.8 in^3
B. 43.3 in^3 D. 86.7 in^3



3. _____

4. F. 824.8 ft^3 H. 412.4 ft^3
G. 530.8 ft^3 I. 28.3 ft^3



4. _____

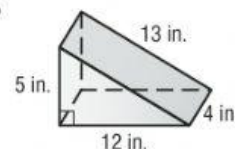
5. A storage container is in the shape of a rectangular prism. The container has a length of 5 feet, a width of 9 feet, and a height of 8 feet. What is the surface area of the container?

A. 360 ft^2 B. 314 ft^2 C. 157 ft^2 D. 22 ft^2

5. _____

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

F. 150 in^2 H. 240 in^2
G. 180 in^2 I. $3,120 \text{ in}^2$



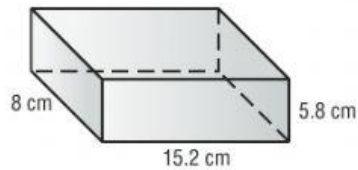
6. _____

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7. What is the volume of the prism?



7. _____

- A. 29 cm^3 C. 512.3 cm^3
B. 87 cm^3 D. 705.3 cm^3

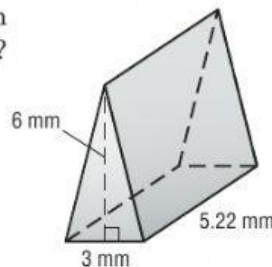
8. A department store wraps gifts for its customers. What is the amount of wrapping paper it would take to wrap a gift box with a width of 12 inches, a height of 4 inches, and a length of 16 inches?

- F. 768 in^2 H. 512 in^2
G. 608 in^2 I. 304 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 mm^3 C. 47.0 mm^3
B. 94.0 mm^3 D. 42.7 mm^3



9. _____

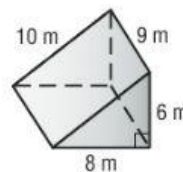
10. A paperweight in the shape of a square pyramid has a side length of 2.7 inches. The slant height is 2.5 inches. What is the surface area of the paper weight?

- F. 18.2 in^2 H. 20.79 in^2
G. 19.75 in^2 I. 34.29 in^2

10. _____

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

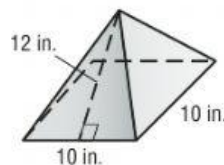
- A. 216 m^2 C. 264 m^2
B. 240 m^2 D. 312 m^2



11. _____

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

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



12. _____