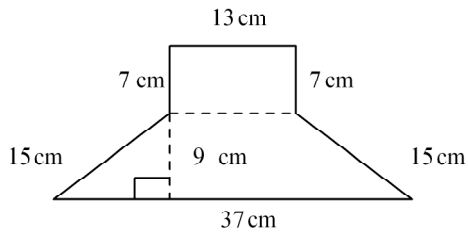


### Chapter 9 Practice Test Surface Area

#### Multiple Choice

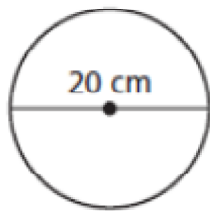
Identify the choice that best completes the statement or answers the question.

- \_\_\_\_ 1. Find the Perimeter.



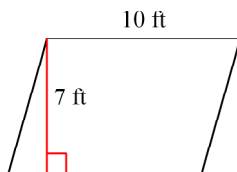
- A) 114 cm      B) 134 cm      C) 586 cm      D) 94 cm

- \_\_\_\_ 2. Find the Circumference of the circle.



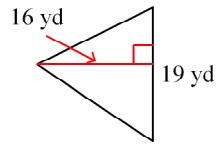
- A) 10 cm      B) 31.4 cm      C) 125.6 cm      D) 62.8 cm

- \_\_\_\_ 3. Find the Area of the figure.



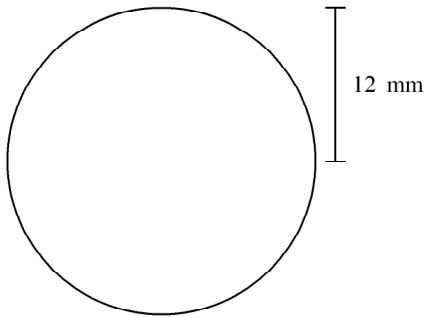
- A) 73 ft<sup>2</sup>      B) 34 ft<sup>2</sup>      C) 35 ft<sup>2</sup>      D) 70 ft<sup>2</sup>

\_\_\_ 4. Find the Area of the figure.



- A)  $304 \text{ yd}^2$       B)  $35 \text{ yd}^2$       C)  $152 \text{ yd}^2$       D)  $70 \text{ yd}^2$

\_\_\_ 5. Find the area of the circle. Use 3.14 for  $\pi$ .



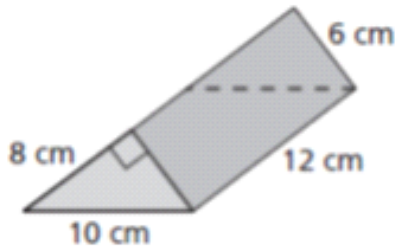
- A)  $113.04 \text{ mm}^2$       C)  $75.36 \text{ mm}^2$   
B)  $453.16 \text{ mm}^2$       D)  $452.16 \text{ mm}^2$

\_\_\_ 6. Name the space figure.



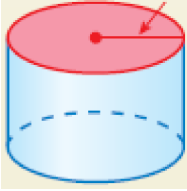
- A) triangular pyramid      C) Square pyramid  
B) triangular prism      D) Square prism

\_\_\_ 7. Name the space figure.



- A) Rectangular pyramid
- B) triangular pyramid
- C) Rectangular prism
- D) triangular prism

\_\_\_ 8. Name the space figure.



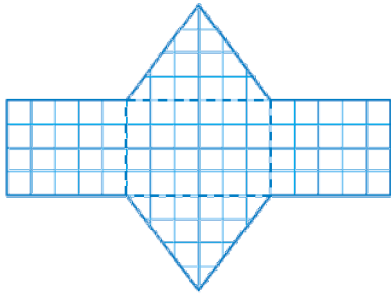
- A) Cylinder
- B) Circular prism
- C) Cone
- D) triangular pyramid

\_\_\_ 9. Name the space figure.



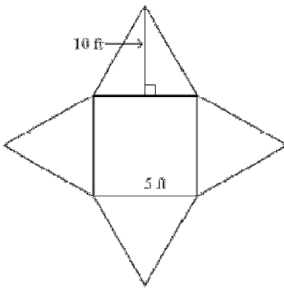
- A) Hexagonal Pyramid
- B) Pentagonal Pyramid
- C) Pentagonal Prism
- D) Hexagonal Prism

\_\_\_ 10. Name the space figure you can form from the net.



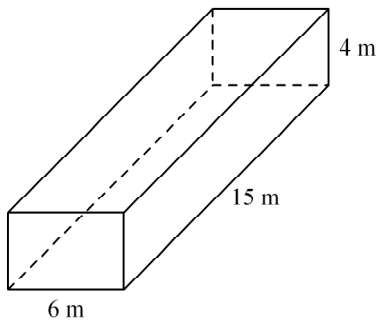
- A) rectangular pyramid
- B) rectangular prism
- C) triangular prism
- D) triangular pyramid

\_\_\_ 11. Name the space figure you can form from the net.



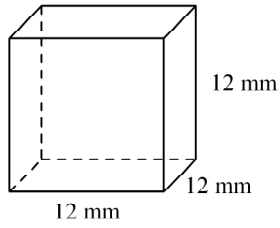
- A) Rectangular Prism
- B) Triangular Pyramid
- C) Rectangular Pyramid
- D) Triangular Prism

\_\_\_ 12. Find the surface area of the figure.



- A)  $348 \text{ m}^2$
- B)  $347 \text{ m}^2$
- C)  $174 \text{ m}^2$
- D)  $360 \text{ m}^2$

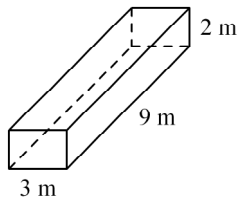
\_\_\_ 13. Find the surface area of the figure.



- A)  $864 \text{ mm}^2$
- B)  $959 \text{ mm}^2$

- C)  $1,728 \text{ mm}^2$
- D)  $432 \text{ mm}^2$

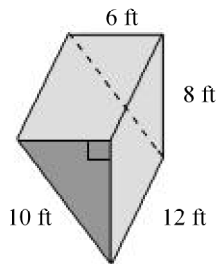
\_\_\_ 14. Find the surface area of the figure.



- A)  $51 \text{ m}^2$
- B)  $105 \text{ m}^2$

- C)  $54 \text{ m}^2$
- D)  $102 \text{ m}^2$

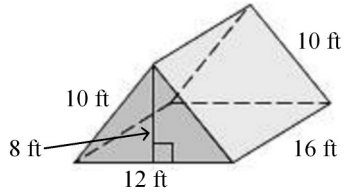
\_\_\_ 15. Find the surface area of the triangular prism.



- A)  $336 \text{ ft}^2$
- B)  $348 \text{ ft}^2$

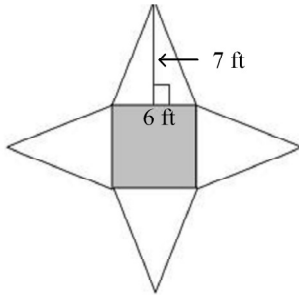
- C)  $384 \text{ ft}^2$
- D)  $624 \text{ ft}^2$

\_\_\_ 16. Find the surface area of the triangular prism.



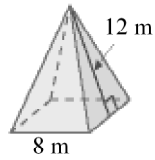
- A)  $608 \text{ ft}^2$       B)  $704 \text{ ft}^2$       C)  $560 \text{ ft}^2$       D)  $590 \text{ ft}^2$

\_\_\_ 17. Find the surface area of the square pyramid.



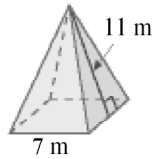
- A)  $120 \text{ ft}^2$       B)  $168 \text{ ft}^2$       C)  $84 \text{ ft}^2$       D)  $204 \text{ ft}^2$

\_\_\_ 18. Find the surface area of the square pyramid.



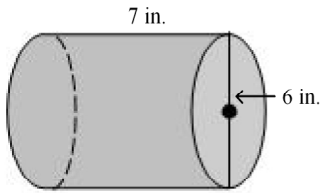
- A)  $448 \text{ m}^2$       C)  $256 \text{ m}^2$   
B)  $384 \text{ m}^2$       D)  $192 \text{ m}^2$

\_\_\_ 19. Find the surface area of the square pyramid.



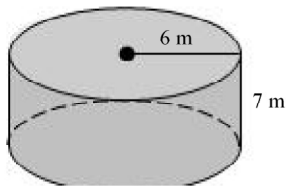
- A)  $154 \text{ m}^2$       C)  $203 \text{ m}^2$   
B)  $308 \text{ m}^2$       D)  $357 \text{ m}^2$

\_\_\_ 20. Find the surface area of the figure.



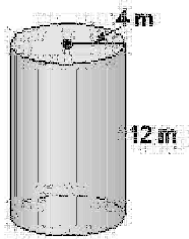
- A)  $301.4 \text{ in.}^2$       B)  $320.3 \text{ in.}^2$       C)  $188.4 \text{ in.}^2$       D)  $358 \text{ in.}^2$

\_\_\_ 21. Find the surface area of the figure.



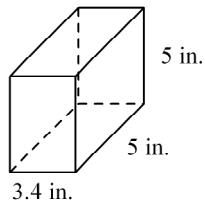
- A)  $489.8 \text{ m}^2$       B)  $263.8 \text{ m}^2$       C)  $501.8 \text{ m}^2$       D)  $376.8 \text{ m}^2$

\_\_\_ 22. A cylinder and its dimensions are shown below. What is the surface area of the cylinder (use 3.14 for  $\pi$ )



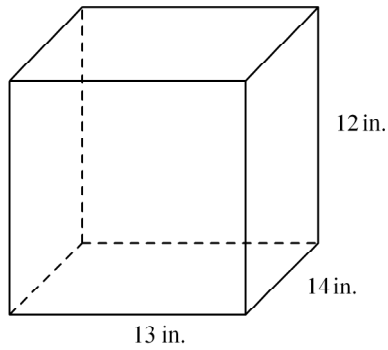
- A)  $401.92 \text{ m}^2$       B)  $301.44 \text{ m}^2$       C)  $100.48 \text{ m}^2$       D)  $602.88 \text{ m}^2$

\_\_\_ 23. Find the volume of the prism.



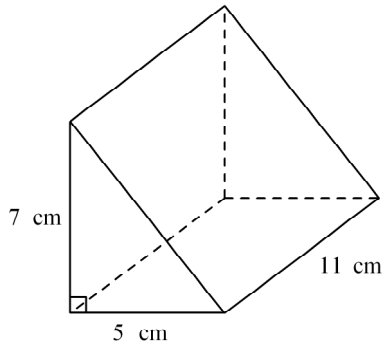
- A)  $88.6 \text{ in.}^3$       B)  $42 \text{ in.}^3$       C)  $118 \text{ in.}^3$       D)  $85 \text{ in.}^3$

\_\_\_ 24. Find the volume of the prism.



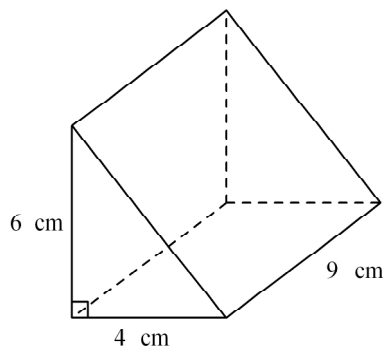
- A)  $672 \text{ in.}^3$       B)  $156 \text{ in.}^3$       C)  $39 \text{ in.}^3$       D)  $2184 \text{ in.}^3$

\_\_\_ 25. Find the volume of the prism.



- A)  $385 \text{ cm}^3$       B)  $101 \text{ cm}^3$       C)  $23 \text{ cm}^3$       D)  $192.5 \text{ cm}^3$

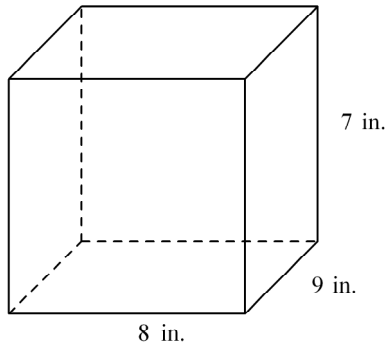
\_\_\_ 26. Find the volume of the prism.



- A)  $19 \text{ cm}^3$       B)  $108 \text{ cm}^3$       C)  $216 \text{ cm}^3$       D)  $83 \text{ cm}^3$



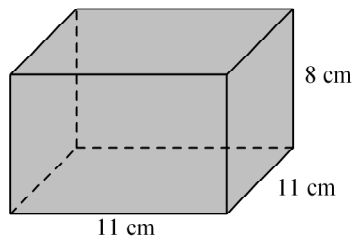
\_\_\_ 27. Find the volume of the prism.



- A)  $252 \text{ in.}^3$
- B)  $24 \text{ in.}^3$

- C)  $96 \text{ in.}^3$
- D)  $504 \text{ in.}^3$

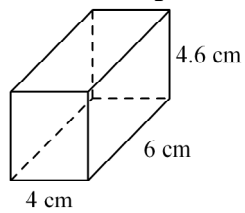
\_\_\_ 28. Find the volume of the prism.



- A)  $121 \text{ cm}^3$
- B)  $88 \text{ cm}^3$

- C)  $968 \text{ cm}^3$
- D)  $961 \text{ cm}^3$

\_\_\_ 29. Find the volume of the prism.



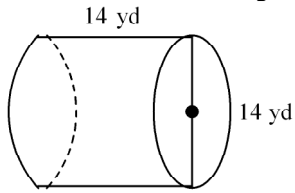
- A)  $102.1 \text{ cm}^3$

- B)  $46 \text{ cm}^3$

- C)  $110.4 \text{ cm}^3$

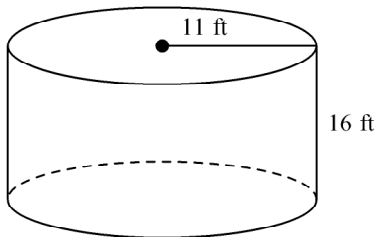
- D)  $140 \text{ cm}^3$

\_\_\_ 30. Find the volume of the composite solid. Round your answer to the nearest tenth.



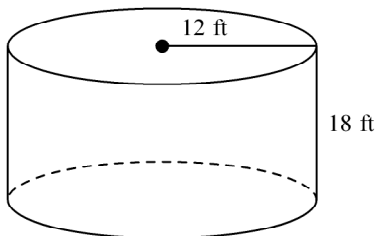
- A)  $2,744\pi \approx 8,624 \text{ yd}^3$       C)  $196\pi \approx 616 \text{ yd}^3$   
 B)  $686\pi \approx 2,156 \text{ yd}^3$       D)  $1,372\pi \approx 4,312 \text{ yd}^3$

\_\_\_ 31. Find the volume of the composite solid. Round your answer to the nearest tenth.



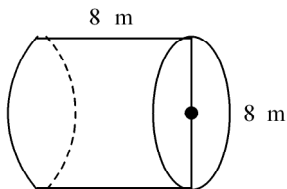
- A)  $352\pi \approx 1,105.3 \text{ ft}^3$       C)  $1,936\pi \approx 6,079 \text{ ft}^3$   
 B)  $7,744\pi \approx 24,316.2 \text{ ft}^3$       D)  $2,816\pi \approx 8,842.2 \text{ ft}^3$

\_\_\_ 32. Find the volume of the composite solid. Round your answer to the nearest tenth.



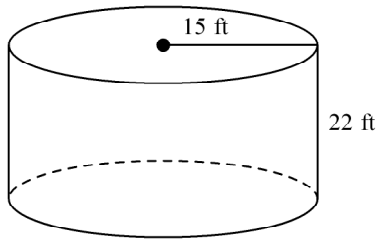
- A)  $10,368\pi \approx 32,555.5 \text{ ft}^3$       C)  $2,592\pi \approx 8,138.9 \text{ ft}^3$   
 B)  $432\pi \approx 1,356.5 \text{ ft}^3$       D)  $3,888\pi \approx 12,208.3 \text{ ft}^3$

\_\_\_ 33. Find the volume of the composite solid. Round your answer to the nearest tenth.



- A)  $128\pi \approx 401.9 \text{ m}^3$       C)  $256\pi \approx 803.8 \text{ m}^3$   
 B)  $512\pi \approx 1,607.7 \text{ m}^3$       D)  $64\pi \approx 201 \text{ m}^3$

- \_\_\_ 34. Find the volume of the composite solid. Round your answer to the nearest tenth.



- A)  $19,800\pi \approx 62,172 \text{ ft}^3$                       C)  $7,260\pi \approx 22,796.4 \text{ ft}^3$   
B)  $660\pi \approx 2,072.4 \text{ ft}^3$                       D)  $4,950\pi \approx 15,543 \text{ ft}^3$

- \_\_\_ 35. Use the Fundamental Counting Principle to find the total number of possible outcomes.

Lunch	
Drink	Water, Cola, Diet cola, Iced tea, Lemonade
Sandwich	Ham & Cheese, Meatball
Side	Fries, Cottage Cheese, Banana, Pineapple

- A) 40                      B) 11                      C) 13                      D) 46

- \_\_\_ 36. You randomly choose a marble from a jar. The jar contains 3 red marbles, 10 blue marbles, 8 green marbles, and 4 yellow marbles. Find the probability of choosing a green marble

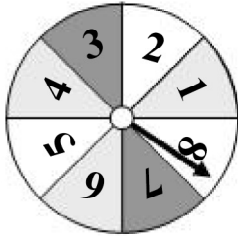
- A)  $\frac{1}{5}$                       B)  $\frac{8}{25}$                       C)  $\frac{4}{25}$                       D)  $\frac{4}{27}$

- \_\_\_ 37. You roll a number cube. Determine the theoretical probability of the event.

Rolling a 4

- A)  $\frac{1}{6}$                       B)  $\frac{3}{2}$                       C)  $\frac{4}{5}$                       D)  $\frac{2}{3}$

\_\_\_ 38. Use the spinner to determine the theoretical probability of the event.

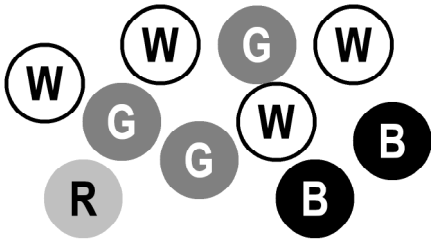


Spinning a 8

- A)  $\frac{1}{8}$                       B)  $\frac{1}{7}$                       C) 1                      D)  $\frac{2}{9}$

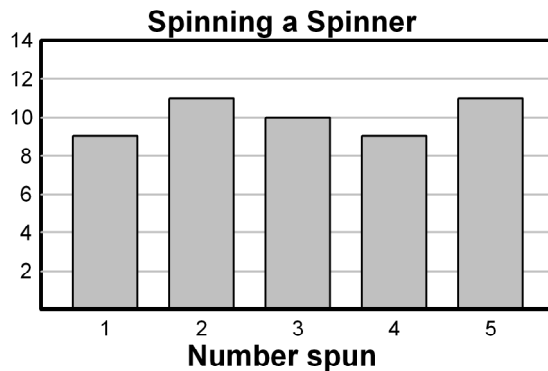
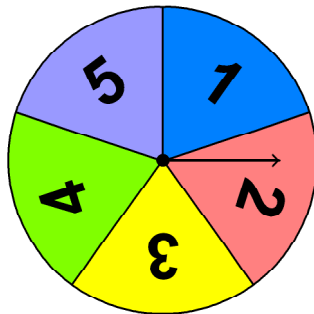
\_\_\_ 39. You randomly choose one of the chips. Without replacing the first chip, you choose a second chip. Find the probability of choosing the first chip, then the second chip.

Black and Red



- A)  $\frac{1}{45}$                       B)  $\frac{1}{36}$                       C)  $\frac{1}{50}$                       D)  $\frac{1}{5}$

\_\_\_ 40. Spinning a 2 or a 4



- A)  $\frac{11}{50}$                       B)  $\frac{2}{5}$                       C)  $\frac{3}{25}$                       D)  $\frac{9}{50}$