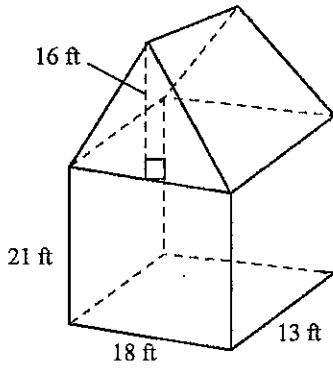


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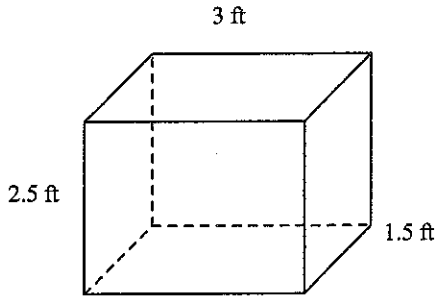
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___ 3. Find the volume of the composite figure.



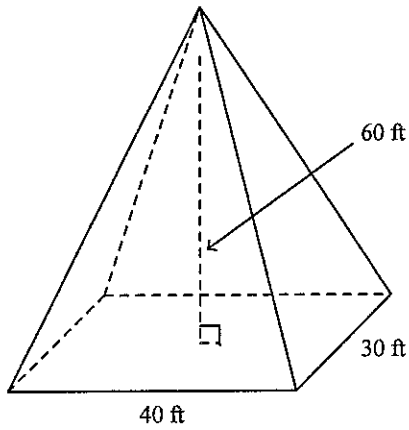
- a. $6,786 \text{ ft}^3$
- b. $4,914 \text{ ft}^3$
- c. $1,872 \text{ ft}^3$
- d. $2,032 \text{ ft}^3$

___ 4. Mr. Gonzalez is designing a planter box. The width will be 3 feet, and the height will be 2.5 feet. The length will be 1.5 feet. What expression gives the volume of the planter box in cubic feet?

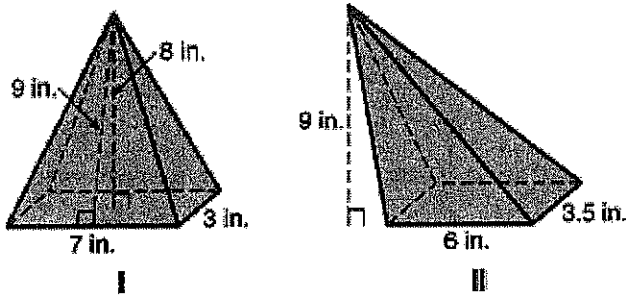


- a. $(3)(1.5)^2 \text{ ft}^3$
- b. $(3)(2.5)(1.5) \text{ ft}^3$
- c. $(3)^2(2.5)(1.5) \text{ ft}^3$
- d. $2(3)+ 2(2.5)+ 2(1.5) \text{ ft}^3$

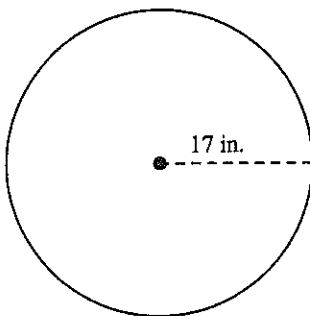
- _____ 5. The length, width, and height of the rectangular pyramid are multiplied by $\frac{1}{3}$. Describe the effect on the volume.



- a. The volume is multiplied by $\frac{1}{3}$.
 b. The volume is multiplied by $\frac{1}{9}$.
 c. The volume is multiplied by $\frac{1}{27}$.
 d. The volume is multiplied by $\frac{1}{81}$.
- _____ 6. Which pyramid has a volume of 63 cubic inches?



- a. I
 b. II
 c. both
 d. neither
- _____ 7. Find the circumference of the circle to the nearest tenth. Use 3.14 for π .

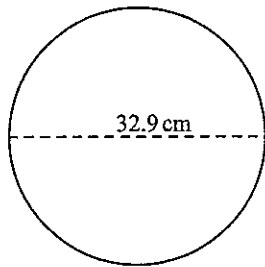


- a. 2849.4 in.
 b. 53.4 in.
 c. 907.5 in.
 d. 106.8 in.

Name: _____

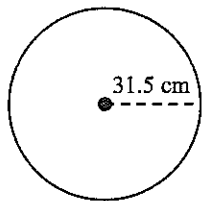
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8. Estimate the area of the circle. Use 3 to approximate π .



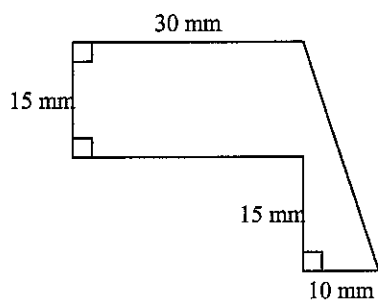
- a. about 96 cm^2
- b. about 256 cm^2
- c. about 768 cm^2
- d. about 3267 cm^2

9. Find the area of the circle. Use $\frac{22}{7}$ for π . Round your answer to the nearest hundredth.



- a. 99 cm^2
- b. $12,474 \text{ cm}^2$
- c. 198 cm^2
- d. $3,118.5 \text{ cm}^2$

10. Find the area of the figure.

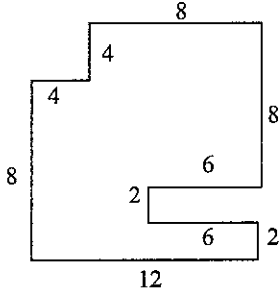


- a. 450 mm^2
- b. $67,500 \text{ mm}^2$
- c. 600 mm^2
- d. 150 mm^2

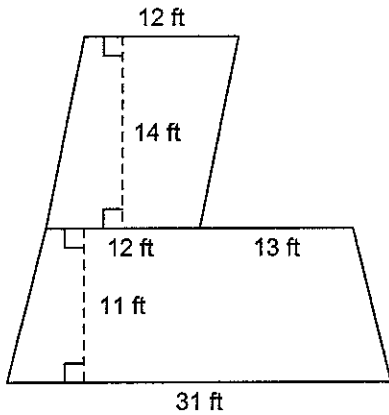
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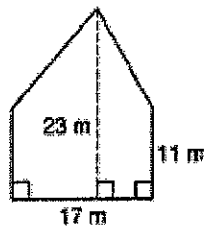
11. Kristine wants to do hardwood flooring for her room. A floor plan of the room (in feet) is shown. How much hardwood flooring does she need?



- a. 144 ft^2 c. 116 ft^2
b. 112 ft^2 d. 60 ft^2
12. What is the area of the composite figure shown?



- a. 140 ft^2
b. 168 ft^2
c. 308 ft^2
d. 476 ft^2
13. What is the area of the polygon?

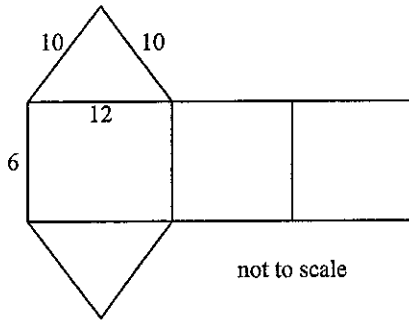


- a. 102 m^2 c. 289 m^2
b. 187 m^2 d. 391 m^2

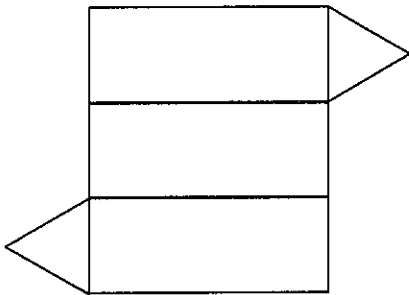
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- _____ 16. Determine how the surface area of the prism represented by the net changes if the height of the prism is doubled.



- a. The surface area increases by 288 square units.
 - b. The surface area increases by a factor of 2.
 - c. The surface area increases by 192 square units.
 - d. The surface area increases by 480 square units.
- _____ 17. Which solid figure is represented by this net?

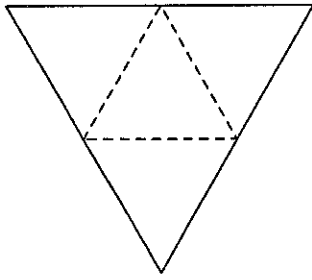


- a. triangular prism
- b. triangular pyramid
- c. rectangular prism
- d. rectangular pyramid

Name: _____

ID: A

___ 18. What three-dimensional figure can be formed by folding the net shown?

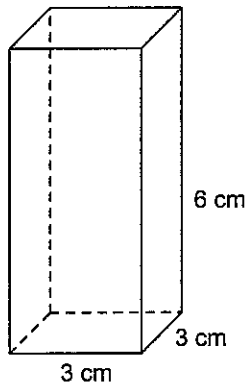


- a. Rectangular prism
- b. Square pyramid
- c. Triangular pyramid
- d. Triangular prism

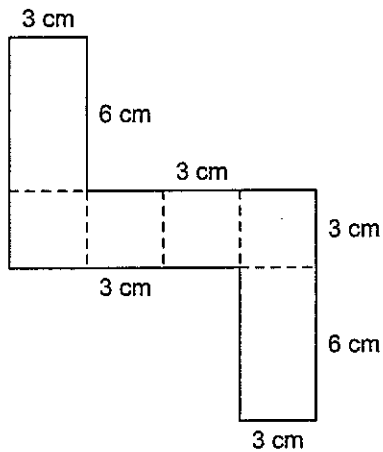
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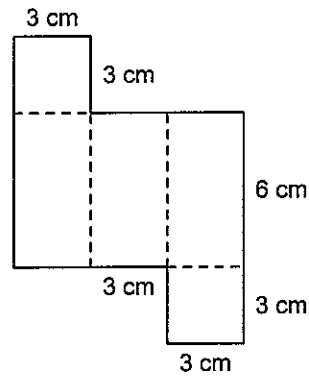
19. What net can be folded to form the figure below?



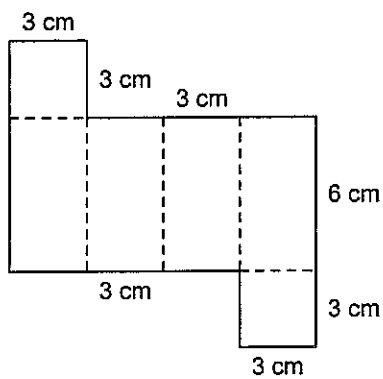
a.



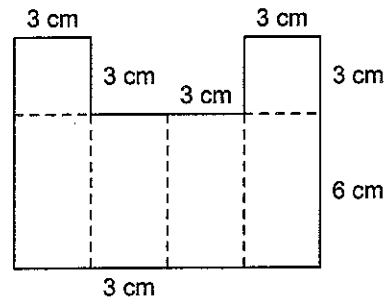
c.



b.



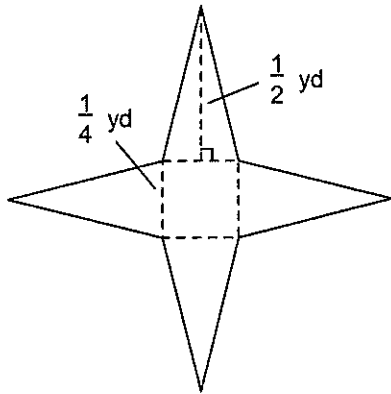
d.



Name: _____

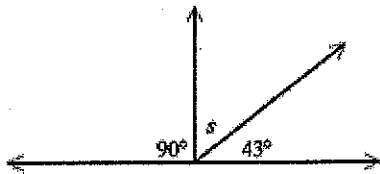
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____ 20. The net of a square pyramid is shown. Find the surface area of the pyramid.



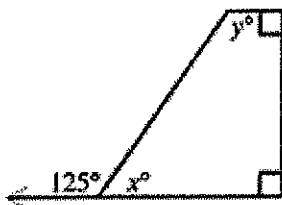
- a. $\frac{1}{8}$ yd²
- b. $\frac{1}{4}$ yd²
- c. $\frac{5}{16}$ yd²
- d. $\frac{9}{16}$ yd²

____ 21. Find the measure of $\angle s$. (The figure may not be drawn to scale.)



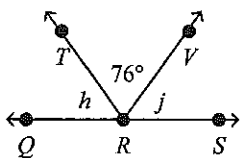
- a. 47°
- b. 53°
- c. 137°
- d. 86°

____ 22. Find the values of x and y .



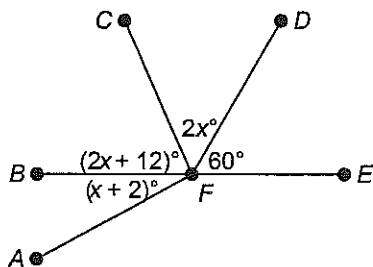
- a. $x = 55; y = 115$
- b. $x = 65; y = 135$
- c. $x = 45; y = 135$
- d. $x = 55; y = 125$

23. Find the unknown angle measures. $\angle QRT$ and $\angle SRV$ are congruent.



- a. $h = 7^\circ, j = 7^\circ$
- b. $h = 52^\circ, j = 52^\circ$
- c. $h = 104^\circ, j = 104^\circ$
- d. $h = 14^\circ, j = 14^\circ$

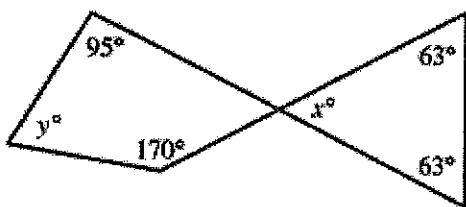
24. Which of the following is NOT a measure of an angle in the figure below?

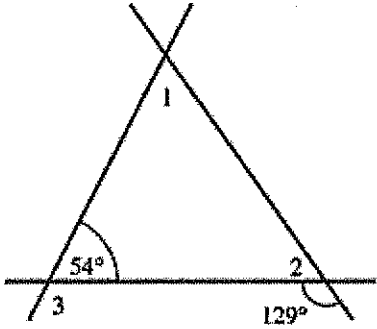


- a. 27°
- b. 29°
- c. 54°
- d. 66°

Short Answer

1. Find the values of x and y .





2.

Part A: What are the measures of $\angle 1$ and $\angle 2$? Explain your answer.

Part B: How does the measure of $\angle 3$ compare to the sum of the measures of $\angle 1$ and $\angle 2$? Explain your answer.

3. In the figure below, $\angle AFB$ and $\angle BFD$ are complementary angles. What is $m\angle CFD$? Show your work.

