Geometry Test Review

1. Which pair of angles are NOT supplementary?

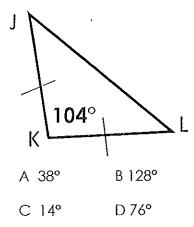
A $m \le B = 15^{\circ}$ and $m \le C = 165^{\circ}$

 $C \text{ m} \angle B = 35^{\circ} \text{ and m} \angle C = 145^{\circ}$

B $m \angle B = 60^{\circ}$ and $m \angle C = 30^{\circ}$

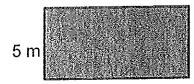
D m \angle B = 105° and m \angle C = 75°

2. Find the measure of \angle KJL.

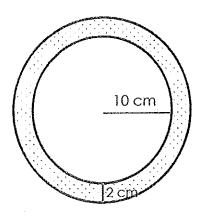


3. The area of a square is 81 mm². What is the perimeter of the square?

4. A rectangle has a perimeter of 40 m. If it is 5 m wide, what is its area?



5. The drawing shows 2 circles that share a common center point.



Which expression can be used to find the approximate circumference of the outer circle in centimeters?

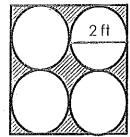
A
$$2\pi(10+2)$$
 B $2(10+2)$

$$B 2(10 + 2)$$

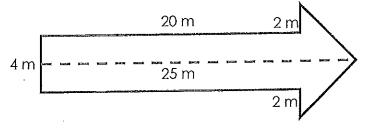
C
$$\pi(10+2)$$
 D $\frac{1}{2}(10+2)$

$$D \frac{1}{10+2}$$

6. Find the area of the shaded region.



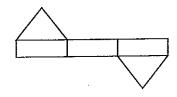
7. Find the area of the figure below.



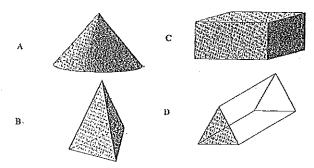
Area:_

Area:

- 8. Which solid figure can be made from the net shown?
- F. Triangular pyramid
- G. Triangular prism
- H. Rectangular prism
- J. Rectangular pyramid

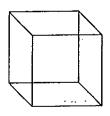


9. Which figure has 6 faces and 12 edges?



10. What is the volume of a cube with an edge of 6 centimeters?

F. 72 cm³ G. 18 cm³ H. 216 cm³ J. 144 cm³



- 11. How many cubic feet of mulch can be hauled in a dump truck if its bed is 7 feet deep, 4.5 feet wide, and 10 feet long.
- A. 480 cu. ft.
- B. 315 cu. ft.
- C. 21.5 cu. ft.
- D. 157 cu. ft.



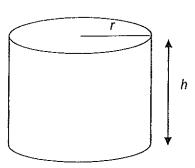
12. If the radius of the cylinder is 3 and the height is twice the radius, then which equation can be used to find the volume?

$$F. \quad v = \pi \cdot 3^2 \cdot 6$$

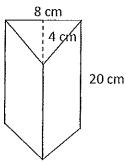
G.
$$v = 3.3.6$$

H.
$$v = 3.3.3$$

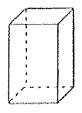
J.
$$v = \pi \cdot 3 \cdot 6$$



13. What is the volume of the triangular prism below?



- A. 32 cubic cm
- B. 64 cubic cm
- C. 320 cubic cm
- D. 640 cubic cm
- 15. The volume of the solid figure below is 240 cubic inches. The area of its base is 24 square inches. What is the height of the solid?



17. The top, front, and side view of a figure are given below.







Which figure matches these views?







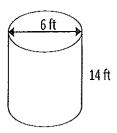


14. A water tank is 14 feet tall. Its base has a diameter of 6 feet. About how long would it take to fill the tank at a rate of 20 cubic feet of water per hour? (Use $\pi = 3.14$)

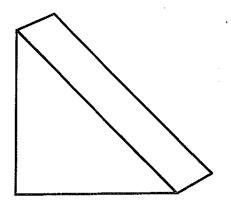
A. 5 hr B. 10 hr

C. 15 hr





- 16. Susan wants to fill a triangular prism with sand. The prism has a base that is an isosceles triangle with a base of 6 inches and a height of 4 inches. The height of the prism is 16 inches. Which equation would Susan use to find out how much sand is needed to fill the prism?
- *Picture not drawn to scale.



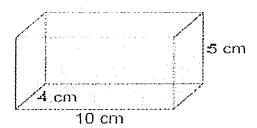
A. A=6 • 4

B. A = 16 • 6

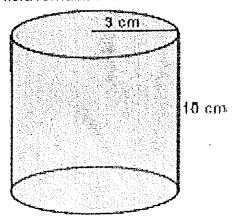
C. V = 6 • 4 • 16

D. $V = \frac{6 \cdot 4}{2} \cdot 16$

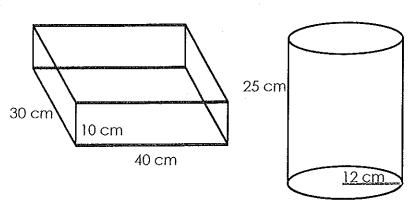
18. Find the volume of the figure below.

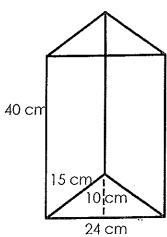


19. Haley checked a cylindrical beaker in the science lab and found that it was $\frac{1}{2}$ empty. How many cubic centimeters of fluid remains in the beaker?



20-22. James is bringing sand to school for an art project. His group is counting on him to bring in as much sand as he can. Which container should he use to bring the sand to school?

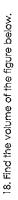


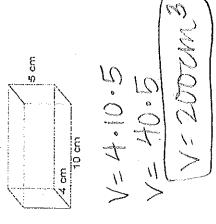


20. Volume: _______

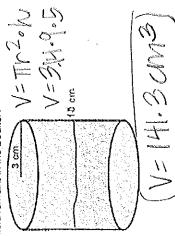
21. Volume: _____

22. Volume: _____

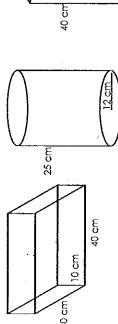


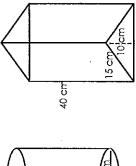


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V= 12.05.40 20. Volume: LOVO CON 21. Volume: 1, 20400 22. Volume: 4800 ON V= 30° 45° 50°

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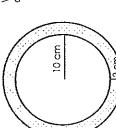
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5 m

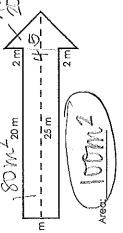
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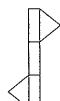
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87.1%

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- F. Triangular pyramid H. Rectangular prism

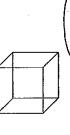
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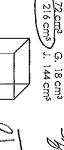
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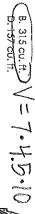


C. 820 cubic cm D. 640 cubic cm

A. 32 cubic cm

truck if its bed is 7 feet deep, 4.5 feet wide, and 10 feet long. How many cubic feet of mulch can be hauled in a dump

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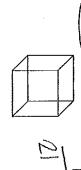
the radius, then which equation can be used to find the volume? 12. If the radius of the cylinder is 3 and the height is twice



2

 $H_{\star} V = 3-3-3$

J. $v = \pi \cdot 3 \cdot 6$



area of its base is 24 square inches. What is the height of the solid? below is 240 cubic inches. The 15. The volume of the solid figure

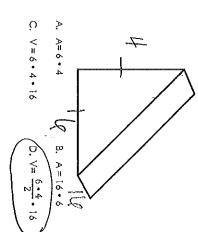


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The height of the prism is 16 inches, Which with a base of 6 inches and a height of 4 inches. The prism has a base that is an isosceles triangle

