

**2<sup>nd</sup> semester exam Review 2014**  
**Part 4**  
**Geometric Figures and Measurement**

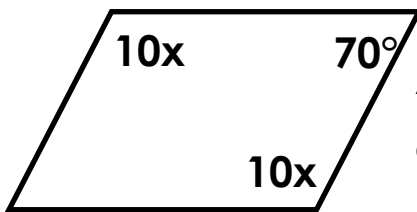
1. Molly measured an angle that measured  $53^\circ$ . What is the measure, in degrees, of an angle that is supplementary to the  $53^\circ$  angle?

- A  $127^\circ$                       B  $37^\circ$   
 C  $53^\circ$                         D None of the above

2. A triangle has side lengths of 90mm, 90mm, and 90mm. Which of the following best describes this triangle?

- A Right                              B Equilateral  
 C Obtuse                            D Isosceles

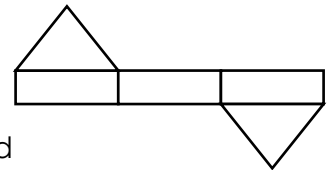
3. Find the value of  $x$  in the parallelogram below.



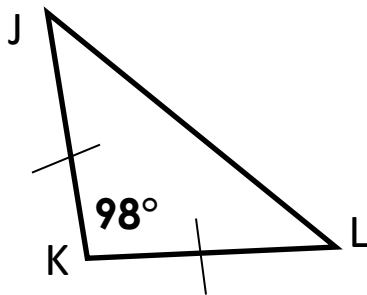
- A  $20^\circ$                       B  $11^\circ$   
 C  $100^\circ$                     D  $110^\circ$

4. Which solid figure can be made from the net shown?

- F. Triangular pyramid  
 G. Triangular prism  
 H. Rectangular prism  
 J. Rectangular pyramid

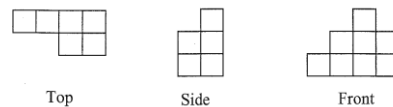


5. Find the measure of angle  $KJL$ .

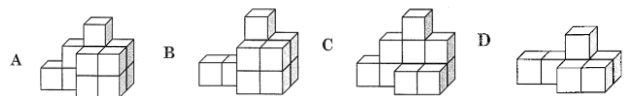


- A  $82^\circ$                       B  $131^\circ$   
 C  $41^\circ$                       D  $52^\circ$

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



Which figure matches these views?



7. Which of the following could be the angle measurements of a parallelogram?

- A)  $80^\circ$   $60^\circ$   $80^\circ$   $60^\circ$     B)  $100^\circ$   $100^\circ$   $100^\circ$   $60^\circ$     C)  $95^\circ$   $85^\circ$   $95^\circ$   $85^\circ$     D)  $70^\circ$   $110^\circ$   $100^\circ$   $60^\circ$

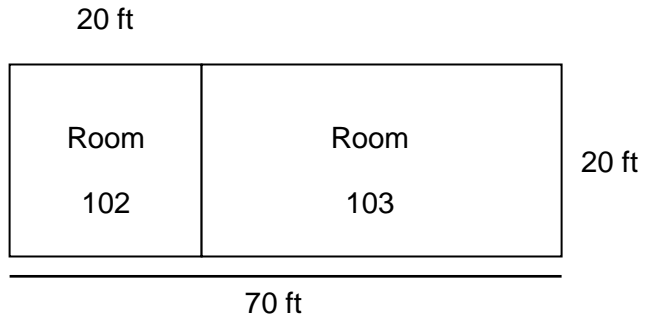
8. A triangle has 2 angles that each measure  $45^\circ$ . Which of the following best describes the triangle?

- A) Right Scalene    B) Right Isosceles    C) Equilateral    D) Obtuse Triangle

Use the picture of the classrooms for #9-10

9. What is the perimeter of room 102?

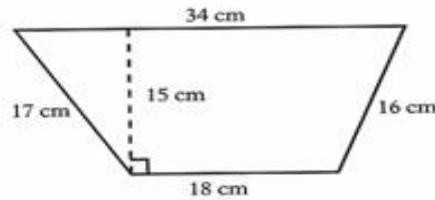
10. What is the area of room 103?



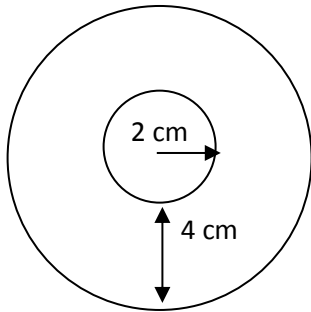
11. Ginger picked out a new rug for her living room. She bought a circular rug and wanted to add fringe around the edge of the rug, How much fringe would she need if the diameter of the rug is 7 feet? (Use  $\pi = 3.14$ )

12. What is the area of the trapezoid?

- A. 247.5 cm<sup>2</sup>
- B. 390 cm<sup>2</sup>
- C. 612 cm<sup>2</sup>
- D. 780 cm<sup>2</sup>



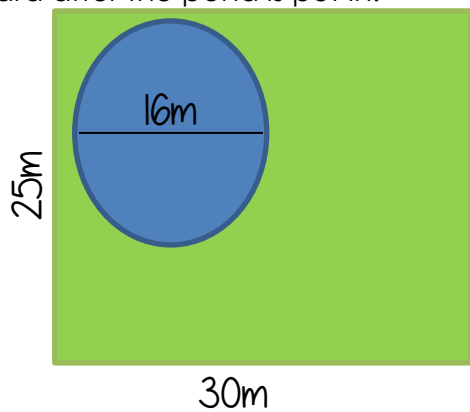
13. The drawing shows 2 circles that share a common center point.



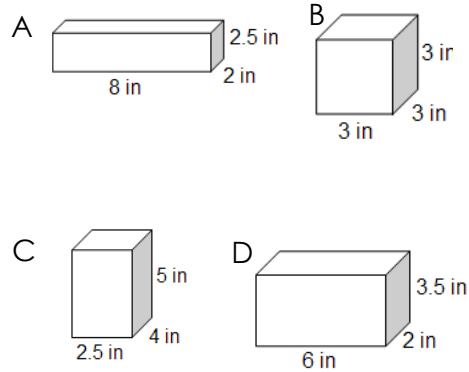
Which expression can be used to find the approximate circumference of the outer circle in centimeters?

- A  $2\pi(2 + 4)$
- B  $2(2 + 4)$
- C  $\pi(2 + 4)$
- D  $\frac{1}{2}(2 + 4)$

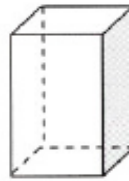
14. The Montgomery's are building a circular pond in their backyard. Find the area of the yard after the pond is put in.



15. Joshua wants to mail a care package to our troops overseas. He has  $45 \text{ in}^3$  of materials to ship. Which of the following rectangular prisms is large enough to hold her items?

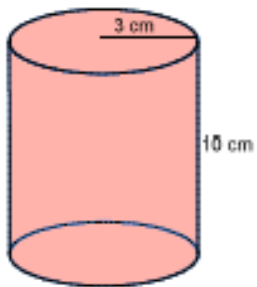


16. The volume of the solid figure below is 648 cubic inches. The height is 9 square inches. What is the area of the base of this solid?



- A 72 cubic in      B 5832 cubic in  
C 639 cubic in      D not here

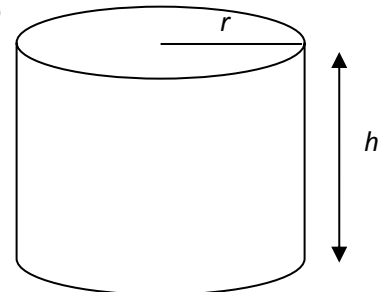
17. Haley checked a cylindrical beaker in the science lab and found that it was  $\frac{1}{4}$  full. How many cubic centimeters of fluid remains in the beaker?



- A 282.6 cubic cm  
B 118.4 cubic cm  
C 141.3 cubic cm  
D 70.65 cubic cm

18. If the radius of the cylinder is 3 and the height is twice the radius, then the formula for the volume is:

- A.  $v = \pi \cdot 3^2 \cdot 6$   
B.  $v = 3 \cdot 3 \cdot 6$   
C.  $v = 3 \cdot 3 \cdot 3$   
D.  $v = \pi \cdot 3 \cdot 6$



19. How many cubic feet of sand can be hauled in a dump truck if its bed is 6 feet deep, 8 feet wide, and 10 feet long.

- A. 480 cu. ft.      B. 240 cu. ft.  
C. 58 cu. ft.      D. 48 cu. ft.

