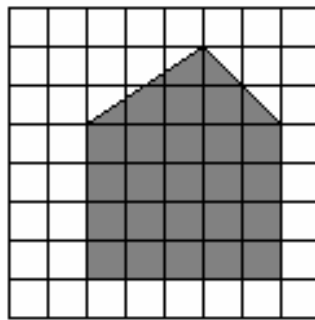


5. The cube shown is made up of smaller cubes that each measure 2 inches by 2 inches by 2 inches. What is the volume of the larger cube?
- A. 9 cubic inches  
 B. 27 cubic inches  
 C. 216 cubic inches  
 D. 512 cubic inches



6. What is the area of the shaded region in the diagram?
- A. 25 square units  
 B. 36 square units  
 C. 72 square units  
 D. It cannot be determined
7. Find the volume of a right circular cone with a radius of 6.2" and a height of 7.4". (Use  $\pi = 3.14$ .)
- A. 297.7 cubic inches  
 B. 299.2 cubic inches  
 C. 398.7 cubic inches  
 D. 893.2 cubic inches
8. A contractor is tiling a rectangular bathroom floor that measures 8 feet 4 inches by 13 feet 4 inches. Each tile is 8 inches by 8 inches and costs \$0.48. If he allows one tile extra (for waste) per each 25 tiles, what is the total price of the tiles to cover the floor?
- A. \$120.00  
 B. \$124.80  
 C. \$129.60  
 D. \$134.40