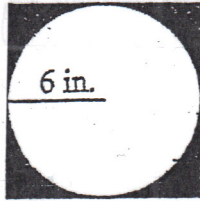
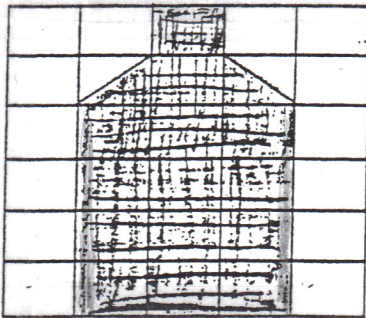



March 13, 2013
Math Bowl

1. Find the area of the shaded region of the square. Circle has a radius 6 in.

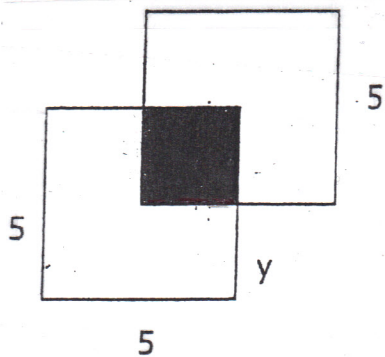


2. Find the area of the shaded region.

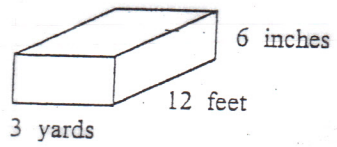


 = 2 units²

3. If the area of the shaded square is 16, what is the length of y ?



4. Find the volume of the box (answer in cubic feet)



5. If the volume of a cube is equal to its surface area, how long is its edge?

4. Which of the following has 8 as a solution?

a. $4y - 3 = 35$

b. $120 - 2y = 104$

c. $\frac{3}{Z} = \frac{6}{16}$

d. $2x + 3(x - 4) = 36$

e. $18 + 3y = 52$

5. Which box comes next?

