Symmetry and Surface Area WS   Name: _____
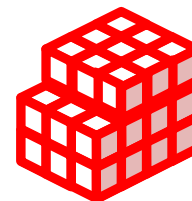
1) In the following diagrams state the total number of cubes and how many cubes have :
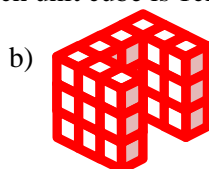
a) 4 faces showing?
b) 3 faces showing?
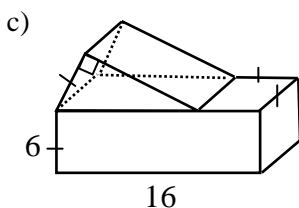c) 2 faces showing?
d) 1 faces showing?
e) total # of cubes?
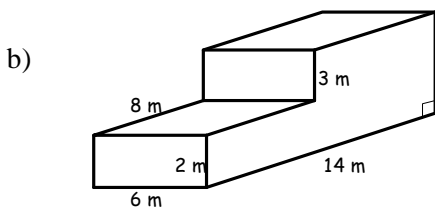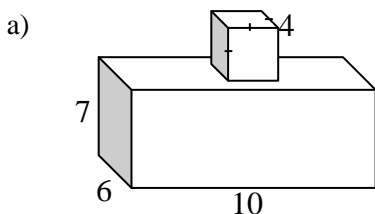
a) 3 faces showing?
b) 2 faces showing?
c) 1 faces showing?
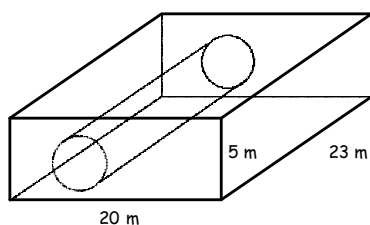d) No faces showing?
e) total # of cubes?

2) Determine the surface area given the side length of each unit cube is 1cm.

a)

b)

3) Determine the surface area of the following composite 3-D objects.

a)

7
6
10
4

b)

3 m
8 m
2 m
14 m
6 m

c)

6
16

4) Find the surface area of the figure with a cylindrical shaped whole cut all the way through. The diameter of the cylinder is 3 m.

5 m   23 m
20 m

Answers: 1a) 5, b) 2, c) 3, d) 0, e) 10   a) 10, b) 13, c) 8, d) 2, e) 33,   2a) 72 cm^2 b) 70 cm^2 3a) 408 $units^2$
b) 320 $units^2$ c) 528 $units^2$ 4) $1350 + 64.5\pi \approx 1552.63 \ m^2$