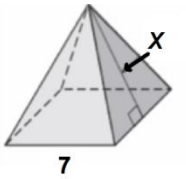
Geometry Honors Surface Area of Solids Name: _____

Quiz Review 12.1 – 12.2

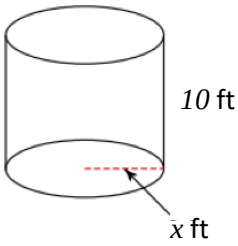
Solving for a Length: Given the surface area of the solid, find the missing length,

5. Square Pyramid is given.

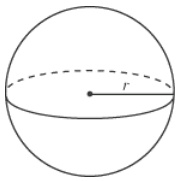
SA = 344 m^2



6. SA = 342π ft^2

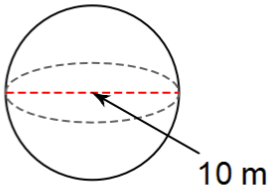


7. SA = 256π in^2

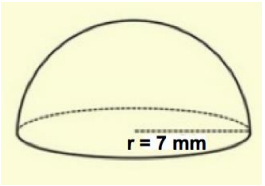


Find the surface area of the sphere or hemisphere

8.

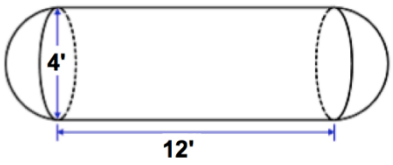


9.

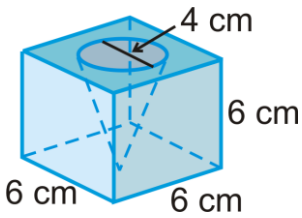


#10-11: Find the surface area of the composite solid. Round answers to the nearest hundredth, if necessary.

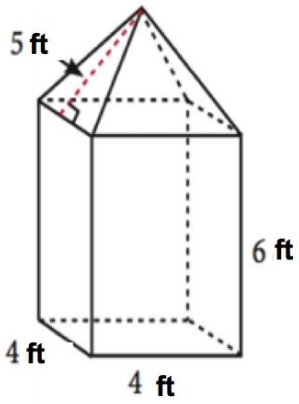
10.



11) A Cone is carved out a cube.



12) Mike, the lead singer of the Rophones, has set up his tarp to cover the stage in case it rains. His next job is to spray on a water repellent that comes in big buckets. Each bucket contains one gallon of water repellent and will cover 32 square feet. How many buckets of water repellent will Mike need to purchase in order to cover every ***exposed*** surface on the tent?



5) $x = 21.07\ m$

6) $x = 9\ ft$ 7) 8 in 8) SA = $100\pi \approx 314.16$ m^2 9) $SA = 147\pi \approx 461.81\ mm^2$ 10) SA = $64\pi \approx 201.06$ ft^2

11) SA = $216 - 4\pi + 4\sqrt{10}\pi \approx 243.17$ cm^2 12) 5 buckets