Unit 4 Test REVIEW - Geometric Modeling

Date Period____

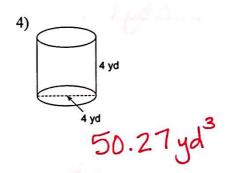
Name each figure and find the volume. Round your answers to the nearest hundredth.

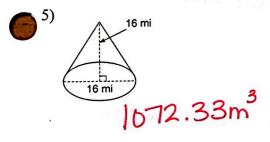
1) 6 mi 10 mi 6 mi

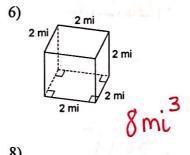
360mi

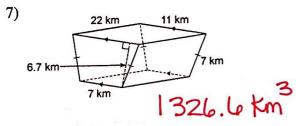
2) 11 km 88 km³

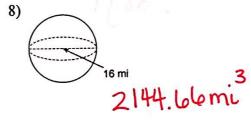
4 mi 246 mi 3

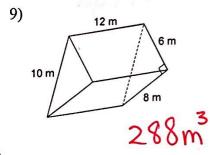


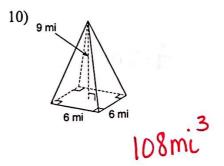


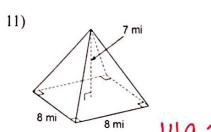




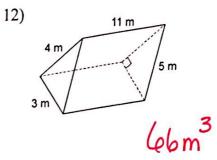






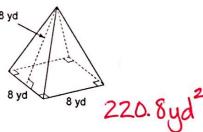


149.33mi³



Name each figure then find the surface area. Round your answers to the nearest hundredth.

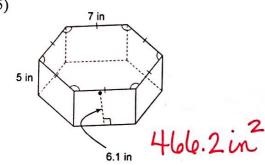


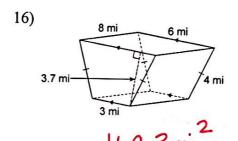


14) 18 ft 20.1 ft

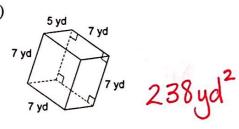
822.78ft







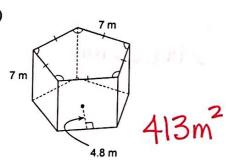
17)



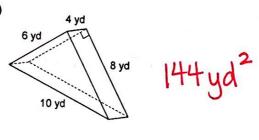




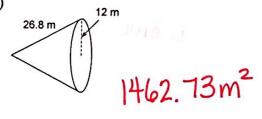
19)



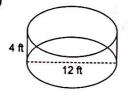
20)



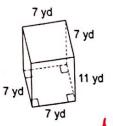
21)



22)



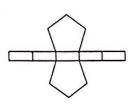
376.99 bt2



406yd2

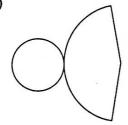
Identify each solid given its net.

25)

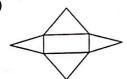


pentagonal

27)

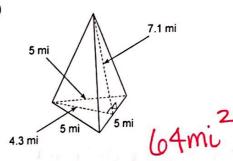


29)



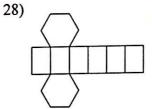
rectangular Pyramid

24)



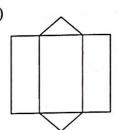
26)





hexagonal prism

30)

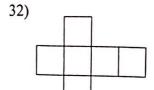


triangular prism

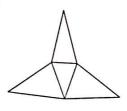
31)



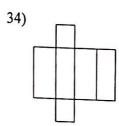
are pyramid



33)



triangular pyramid



rectangular prism

35)

36) A square with area of 100 cm2 is rotated to form a cylinder. What is the volume of the cylinder?

~ 785 cm

37) Given a cone with a radius of 6 ft and a height of 12 ft, find the area of the triangle formed by a perpendicular cross-section down through the cone's center

36/t

- 38) Given the shape below, determine the 3D solid formed by rotating the 2D shape about the line given.
 - a) Triangle about the y-axis

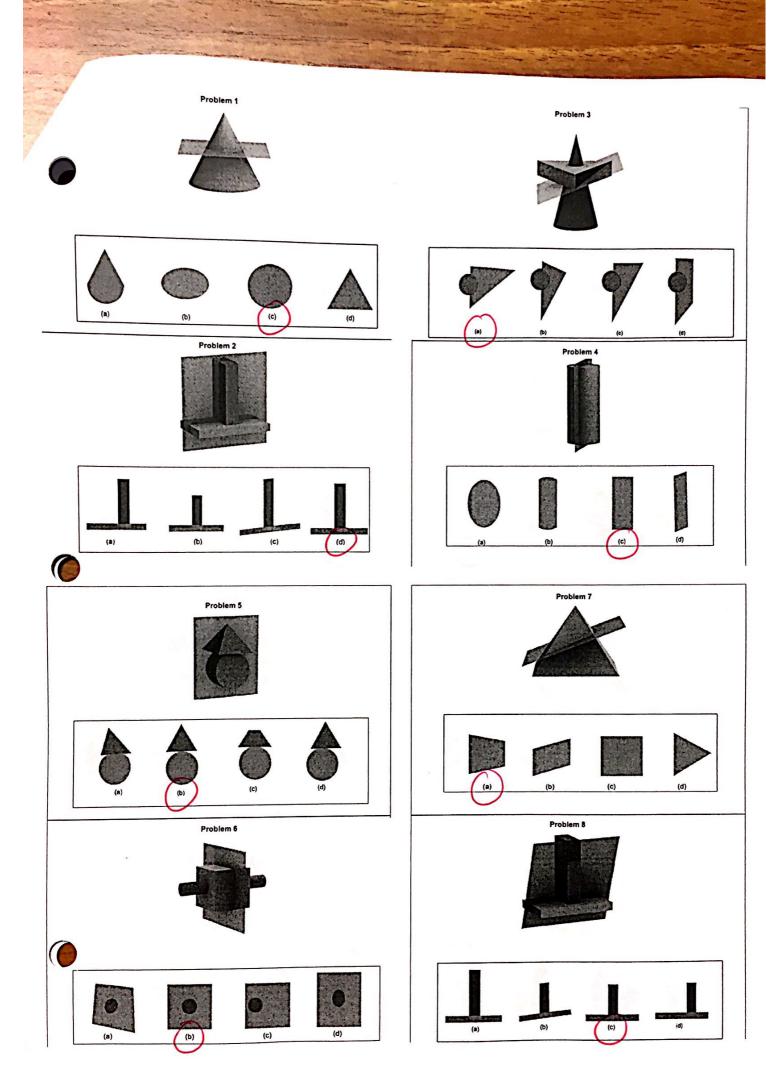
Cone

b) Rectangle about the x-axis

Cylinder

c) Semicircle about the y-axis

Sphere



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