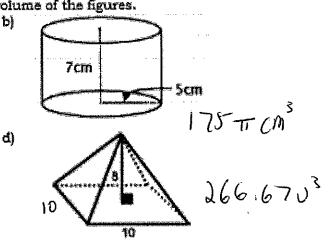
Name:	Date:

Quiz 2 Review

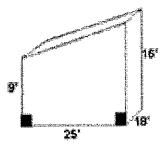
Volume of a Prism:	
Volume of a Cylinder:	1. W. 1. W. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Volume of a Cone:	
Volume of a Pyramid:	
Volume of a Sphere:	
Surface Area of a Sphere:	
Similarity Ratio:	
Area Ratio:	
Volume Ratio:	

11) Find the lateral was total further step, and volume of the figures. a) 2 in 1) in C)



12) Find the sectors and volume of the solid.

24011cm3



13) A cone with radius 6cm and height 12cm is filled to capacity with liquid. Find the height of a cylinder with radius 4 cm that will hold the same amount of liquid.

14) If the diameter of a soap bubble is known to be 2 mm, what is the surface area of the bubble?

What is the volume? $SA = 12.57 \text{ mm}^3$ $V = 4.10 \text{ mm}^3$ $V = 4/3 \text{ mm}^3$ 15) A pipe is 300 cm long and has inside radius 4 cm and outside radius 5 cm. Find the volume of

metal. Hint: draw a diagram.

16) The volume of a sphere is 36π. Find the surface area.

17) A pharmacist is filling medicine capsules. The capsules are cylinders with half spheres on each end. If the length of the cylinder is 12 mm and the radius is 2 mm, how many cubic mm of medication can one capsule hold?

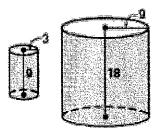
18) The number of square centimeters in the surface area of a sphere is twice the number of cubic centimeter in the volume of a sphere. Find the radius of the sphere.

mundaretten and a sie minder.

- 20) A regular square pyramid is inscribed in a cone with radius 4 cm and height 4 cm.
 - a) What is the volume of the pyramid?
 - bl Find the slant height of the cone and the pyramid.



No, radii	and heights t scale factors.
have differen	t scale factors.
$\frac{3}{4} = \frac{1}{3}$	9 = 1
4 3	18



- 22) Cube C has a surface area of 36 units2 and Cube D has a surface area of 144 units2. Find the scale factor of C to D. 1:2
- 23) Two rectangular prisms are similar. Their scale factor is 3:5. For the smaller prism, the surface area is 90 cm² and the volume is 54 cm³. Find the surface area and volume of the larger figure. 1= 250 cm3 5A= 250 cm2
- 24) Cone A is similar to cone B. The scale factor of A:B is 2:3. The surface area and volume of cone A are 90π m² and 100π m³. Find the surface area and volume of cone B (express answers in terms of π). 202,5 Tm2=JA V= 337.5 Tm3
- 25)The volume of sphere A is 343π in^s and the volume of sphere B is 8π in^s. Find the scale factor of A:B.7:2
- 26) At the MetroPlex movie theater, popcorn is served in a box. At the CinemaPlex movie theater, popcorn is served in a cylindrical container. At home, Mom serves popcorn in a bowl (hemisphere in shape). Based upon the given dimensions, where are you getting the most popcorn? (Disregard the thickness of the container)

Vbowl =
$$83/3\pi$$
 in³ = 261.8 in³
Vcylinds = 72π in³ = 226.19 in³
Vbox = 200 in³

WeltoPlex

Cinemative

Moon's Place

Boul has the most porcorn.

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