Find the volume,	V, of e	ach figure.	Express	answers	in terms	of π .

1. Cup



r: 3 cm; h: 7 cm

1/.		
ν.	~	

2. Frying Pan



r: 15 cm; h: 3 cm

1/	٠.	
v		

3. Can of Peas



r: 3.5 cm; h: 11 cm

1/	٠.					
v	•	_				

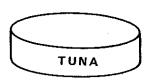
4. Planter



r: 2 ft; h: 3 ft

V:___

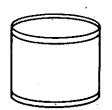
5. Can of Tuna



r: 4 in; h: 2 in

V:_____

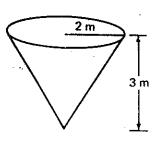
6. Waste Paper Basket



r: 5 in; h: 13 in

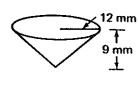
V:

7. Ice Cream Sign



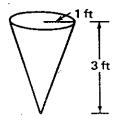
V:

8. Paper Cup



V: .

9. Hanging Planter



V:

10. A cylindrical gasoline storage tank has a diameter of 24 meters and a height of 9 meters. What is the volume of the tank?

11. A cylindrical pencil holder has a volume of 122.5 π cubic inches. If its height is 10 and pencil holder has a volume of its base.

12. A cylinder has a radius of $\sqrt{30}$ meters and a height of $\sqrt{12}$ meters. Find its volume. Express the answer in simplest radical form.

13. Find the volume of a cone if its height is 15.6 feet and the radius of its base is $\sqrt{5}$.

14. The volume of a cone-shaped funnel is 8 π cm³. If the funnel has a height of 6 centimeters, what is the radius of its base?

U material copyrighted under notice pearing earlier in this work.

W-109

Scrambled 6-1

12π 26π

32π

43211

675π

63π

π 4π

134.75π

60√3π 3.5

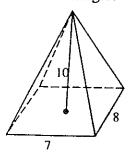
325π

1296π 2

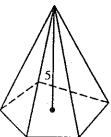
PRACTICE WORKSHEET

Find the volume of each pyramid.

1. Base is a rectangle.

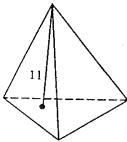


3. Base is a pentagon with an area of 28.

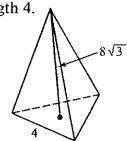


$$V = \underline{\hspace{1cm}}$$

5. Base is an isosceles triangle with sides of lengths 13, 13, and 10.

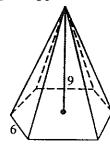


2. Base is an equilateral triangle with sides of length 4. A

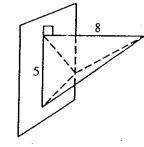


$$V = \underline{\hspace{1cm}}$$

4. regular pyramid

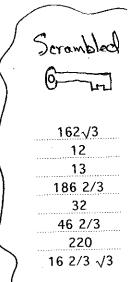


6. Base is an equilateral triangle with sides of length 5.



$$V = \underline{}$$

- 7. A pyramid has a right triangular base with legs 3 ft and 4 ft long. If the height of the pyramid is 6.5 ft, find its volume.
- 8. A pyramid has a volume of 108 cu ft and a base area of 27 cu ft Find its height.



LSA & TSA--More Practice Cylinders & Cones

Name	Assign#
Date	Per

For each of problems 1-9 on Side 1 of the **Volume: Cylinders & Cones** worksheet, calculate the LSA and TSA for each object listed-- assuming it to be a perfect cylinder or cone with the dimensions given in the problem. Show All Work & use appropriate units. (Hints for 7-9) Remember the Pythagorean Theorem!

1)

LSA = _____

TSA = _____

2)

LSA = _____

TSA = _____

3)

LSA = _____

TSA = _____

4)

LSA = _____

TSA = ____

5)

LSA = _____

TSA = _____

6)

LSA = _____

TSA = _____

7)

LSA = ____

TSA = _____

8)

LSA = _____

TSA = _____

9)

LSA = _____

TSA =

Scrambled Answer Key 180π sq in 90π sq cm 42π sq cm $\sqrt{10\pi + \pi}$ sq ft 130π sq in 77π sq cm 12π sq ft 16π sq in $2\sqrt{13} \pi \text{ sq m}$ 20π sq ft 101.5π sq cm $2\sqrt{13} \pi + 4\pi \text{ sq m}$ 60π sq cm 324π sq mm √10π sq ft 540π sq cm 180π sq mm 48π sq in