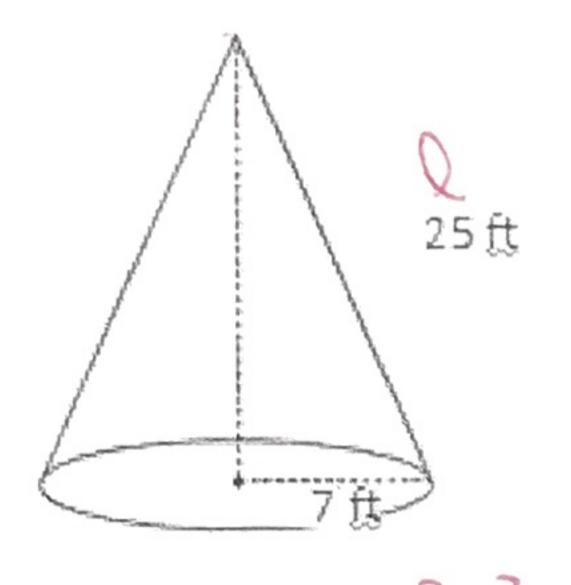
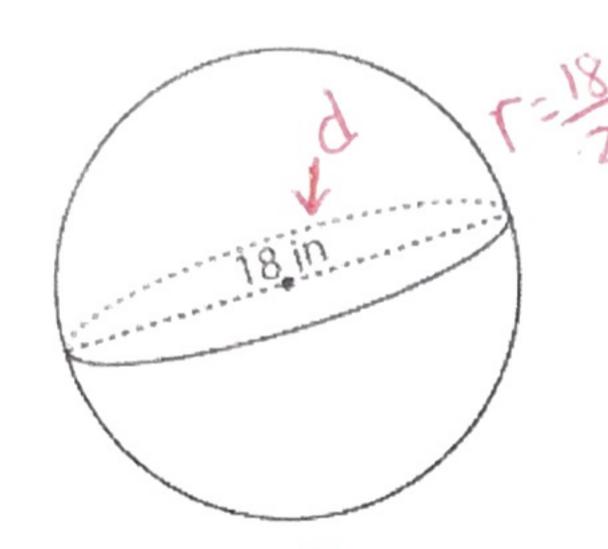
exact and approximate answers to the nearest hundredth unless told otherwise. Do your work on a Lparate sheet of paper!

A cone has a radius of 5 cm and a height of 2 cm. Find the amount it can hold.

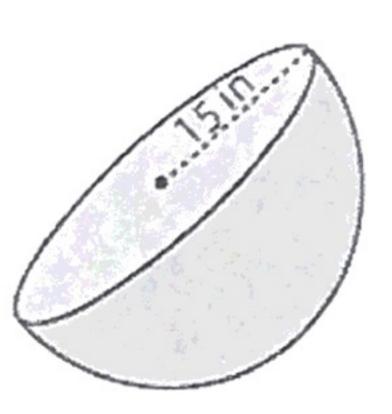
$$V = \frac{50\pi}{3} \text{ cm}^3$$



Volume = 392 21231.50 ft3



Volume = ~ 3053.63 in3



Volume =
$$\frac{2250711}{2068.58in^3}$$

5. The formula for volume of a cylinder is $V = \pi r^2 h$. Solve for h.

$$h = \frac{1}{m^2}$$

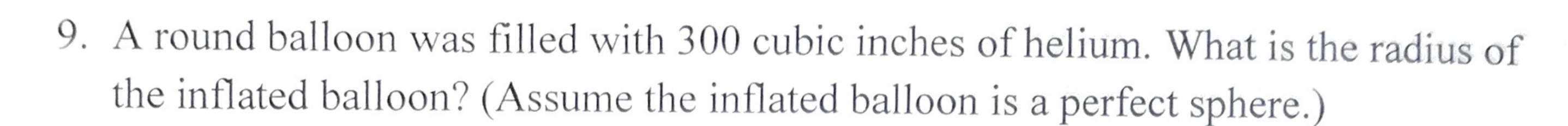
6. The formula for volume of a sphere is $V = \frac{4\pi r^3}{3}$. Solve for r.

$$r = \sqrt{\frac{3}{3}}$$

7. The volume for a cone is $V = \frac{\pi r^2 h}{3}$. Solve for h.

$$h = \frac{3V}{mv^2}$$

8. Find the approximate radius of a cone with a volume of 175 cm³ and a height of 21 cm.



$$r = \frac{3\sqrt{325}}{7}$$

$$r \sim 44\sqrt{5}$$

- 10. Rocky Middle School plans to sell ice cream as a fundraiser. They expect to sell about 200 scoops of ice cream. The ice cream comes in cylindrical cartons. Ester's committee must decide how many cartons to buy for the event.
 - A carton of ice cream has a radius of 11 centimeters and a height of 30 centimeters.
 - A scoop of ice cream has a radius of 3 centimeters.

How many cartons of ice cream should Ester order to make 200 scoops?

V30 = 4 mr3 200

$$=\frac{800\pi(3)^3}{3!}$$

order to make 200 scoops?

1 cartoon has 3630π cm $V_{cyl} = \pi r^2 h$ $= \pi (11)^2 (36)$ $= \pi (121)(30)$

Need to Buy 7200 Tem? 3630 Tr cm3

21,98 containers

So buy 2 containers

	1 Vco = mr2h 3	$\frac{3}{3} V_{SP} = 4 \pi r^3$
	$V_{co} = \pi(5)^{2}(2)$ $\frac{3}{3}$	$=4\pi(9)^3$
	$V_{co} = \pi(25)(a)$ $\frac{3}{3}$	= 4 T 729 3
	Vro = 50 T cm ³	= 2916 T
		$= 972 \text{min}^3$
(2) Vco = Mr2h 3	(4) May 4 Horry 3 1 Cits sphere
NHX NHX	$V_{co} = \pi (7)^2 (24)$	3 3
$-49+h^2=25^2$ $-49+h^2=625$	Vco=TT (49).8	$=4\pi(15)^{3}$
m=576 n=24	Vco = 3921 43	$=4\pi-3315$
		= 13500
		$\int = 2250 \text{m}^{3}$

7.9625-2 r22,820m