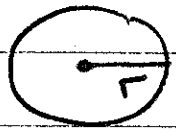
Circles

radius (r) = half the distance across a circle



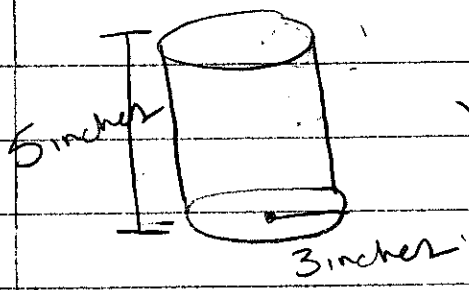
diameter (d) = distance across a circle

Area = πr^2

Circumference = πd

- another way of saying perimeter

Volume of a Cylinder



$V = \pi r^2 h$

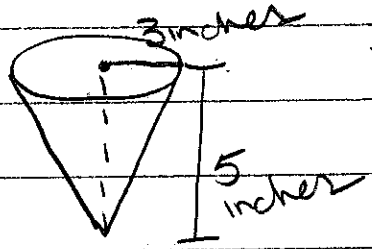
$V \approx 3.14(3)^2(5)$

$V \approx 3.14(9)(5)$

$V \approx 3.14(45)$

$V \approx 141.3 \text{ inches}^3$

Volume of a Cone



$V = \frac{\pi r^2 h}{3}$

$V \approx \frac{3.14(3)^2(5)}{3}$

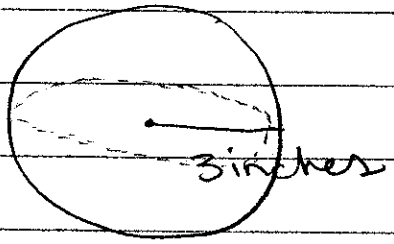
$V \approx \frac{3.14(9)(5)}{3}$

$V \approx \frac{3.14(45)}{3}$

$V \approx \frac{141.3}{3}$

$V \approx 47.1 \text{ inches}^3$

Volume of a Sphere



$$V = \frac{4\pi r^3}{3}$$

$$V \approx \frac{4(3.14)(3)^3}{3}$$

$$V \approx \frac{4(3.14)(27)}{3}$$

$$V \approx \frac{108(3.14)}{3}$$

$$V \approx \frac{339.12}{3}$$

$$V \approx 113.04 \text{ inches}^3$$

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