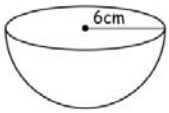
Name _____

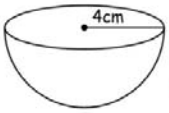
Measures of Volume

Find the volume of each hemisphere. (use π = 3.14)
Round each answer to nearest tenth.



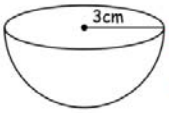
$$\text{Volume} = \frac{2}{3} \times \pi \times \text{radius}^3$$
$$= \frac{2}{3} \times 3.14 \times 6\text{cm} \times 6\text{cm} \times 6\text{cm}$$
$$= 452.1\ \text{cm}^3$$

Volume = $\frac{2}{3} \times \pi \times \text{radius}^3$



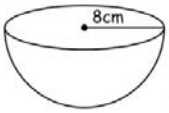
$= \frac{2}{3} \times 3.14 \times 4\text{cm} \times 4\text{cm} \times 4\text{cm}$
$= 134\ \text{cm}^3$

Volume = $\frac{2}{3} \times \pi \times \text{radius}^3$



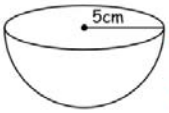
$= \frac{2}{3} \times 3.14 \times 3\text{cm} \times 3\text{cm} \times 3\text{cm}$
$= 56.5\ \text{cm}^3$

Volume = $\frac{2}{3} \times \pi \times \text{radius}^3$



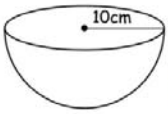
$= \frac{2}{3} \times 3.14 \times 8\text{cm} \times 8\text{cm} \times 8\text{cm}$
$= 1071.8\ \text{cm}^3$

Volume = $\frac{2}{3} \times \pi \times \text{radius}^3$



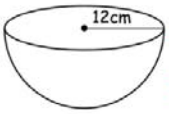
$= \frac{2}{3} \times 3.14 \times 5\text{cm} \times 5\text{cm} \times 5\text{cm}$
$= 261.7\ \text{cm}^3$

Volume = $\frac{2}{3} \times \pi \times \text{radius}^3$



$= \frac{2}{3} \times 3.14 \times 10\text{cm} \times 10\text{cm} \times 10\text{cm}$
$= 2093.3\ \text{cm}^3$

Volume = $\frac{2}{3} \times \pi \times \text{radius}^3$



$= \frac{2}{3} \times 3.14 \times 12\text{cm} \times 12\text{cm} \times 12\text{cm}$
$= 3617.3\ \text{cm}^3$