Class Time Examples for volume of a sphere 02

Numeric Response

- 1. A sphere has a volume of 6705.41976 cubic feet. How many feet is its radius? Use 3.14 as an approximate value for pi. The volume formula for a sphere is: $V = \frac{4}{3}\pi r^3$.
- 2. A sphere has a volume of 2224.96632 cubic feet. How many feet is its diameter? Use 3.14 as an approximate value for pi. The volume formula for a sphere is: $V = \frac{4}{3} \pi r^3$.
- 3. A sphere has a volume of 2756.93256 cubic centimeters. How many centimeters is its diameter? Use 3.14 as an approximate value for pi. The volume formula for a sphere is: $V = \frac{4}{3}\pi r^3$.
- 4. A sphere has a volume of 3704.09472 cubic centimeters. How many centimeters is its radius? Use 3.14 as an approximate value for pi. The volume formula for a sphere is: $V = \frac{4}{3} \pi r^3$.
- 5. A sphere has a volume of 1766.25 cubic centimeters. How many centimeters is its diameter? Use 3.14 as an approximate value for pi. The volume formula for a sphere is: $V = \frac{4}{3} \pi r^3$.

- 6. A sphere has a volume of 1375.35768 cubic centimeters. How many centimeters is its diameter? Use 3.14 as an approximate value for pi. The volume formula for a sphere is: $V = \frac{4}{3}\pi r^3$.
- 7. A sphere has a volume of 4846.59 cubic inches. How many inches is its radius? Use 3.14 as an approximate value for pi. The volume formula for a sphere is: $V = \frac{4}{3} \pi r^3$.
- 8. A sphere has a volume of 4442.92416 cubic inches. How many inches is its diameter? Use 3.14 as an approximate value for pi. The volume formula for a sphere is: $V = \frac{4}{3} \pi r^3$.

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NUMERIC RESPONSE

- 1. 11.7
- 2. 16.2
- 3. 17.4
- 4. 9.6
- 5. 15
- 6. 13.8
- 7. 10.5
- 8. 20.4