GRADE 8 MATH · CLASSWORK

Find the Surface Area of a Sphere

SCORE / 25

01 Part A · Practice

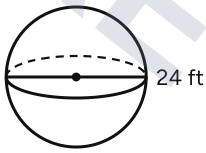
The surface area of a sphere is 4 times the area of its great circle: $SA = 4\pi r^2$.

EXAMPLE

Find the surface area of a sphere with diameter 10 **in. Use** $\pi \approx 3.14$**.**

1. Radius: $10 \div 2 = 5$ in.
2. $SA = 4\pi r^2 = 4\pi(5)^2 = 100\pi$.
3. $100(3.14) = 314$ in.^{2}.

1 ●○○ Find the SA of the sphere. Answer in terms of π.



2 ●○○ The great circle of a sphere has area 49π cm^2. Find the SA of the sphere. Answer in terms of π.

3 ●○○ Find the surface area of a sphere with diameter 2 yd. Answer in terms of π.

4 ●○○ Find the total surface area of the hemisphere, including its flat circle base. Use $\pi \approx 3.14$.



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Preview - the full worksheet and its answer key are at primeworksheet.com