GRADE 8 MATH · CLASSWORK · SPECIAL ED

# 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 ÷ 2 = 5 in.
2. $SA = 4\pi r^2 = 4\pi(5)^2 = 100\pi$.
3. $100(3.14) = 314$ in.$^2$.

**WORDS TO KNOW**

| | |
|---|---|
| **sphere** | a round solid where every point on the surface is the same distance from the center |
| **great circle** | a circle that cuts a sphere through its center |
| **hemisphere** | half of a sphere |

**1** ●○○

Find the SA of the sphere. Use $\pi \approx 3.14$.

**HINT** SA = $4\pi r^2$. Square the radius, then multiply by 4 and by π.




**2** ●○○

The great circle of a sphere has area 200.96 yd$^2$. Find the SA of the sphere. Use $\pi \approx 3.14$.

**HINT** The surface area of a sphere is 4 times the area of its great circle.

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