11-6 Surface Areas and Volumes of Spheres — Pi-Day Color Match Activity SE

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A = 4\pi r^2
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V = \frac{4}{3}\pi r^3
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Directions: Answer the questions. Find your answer on the Apple Pie. Then color according to your answers.

1. A set of all points in space that are a fixed distance from a fixed point represent a __________. (YELLOW)

2. The distance between the center of the sphere and any fixed point on the sphere is known as the __________ of the sphere. (RED)

3. The surface area of the sphere is written mathematically as ___________. (LIGHT GREEN)

4. The surface area of the sphere with diameter 8 cm is ____________ cm². (ORANGE)

5. The volume of the sphere is written mathematically as ___________. (BROWN)

6. The volume of the sphere with radius 8 in is ___________ in³. (GREEN)

7. The surface area of the sphere shown below is __________ cm². (PINK)

8. The volume of the pyramid given below is __________ m³. (LIGHT BLUE)
9. The radius of a sphere with surface area $300 \text{ cm}^2$ will be __________ cm. (LIGHT GREEN)

10. The volume of a sphere with surface area $101.34 \text{ m}^2$ is __________ $\text{m}^3$. (PURPLE)