Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
**11-6 Surface Areas and Volumes of Spheres – Pi-Day Color Match Activity SE**

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$$92$$

$$92$$

$$4.9$$

$$4.9$$

$$V=\frac{4}{3}πr^{3}$$

$$V=\frac{4}{3}πr^{3}$$

$$4.9$$

$$4.9$$

$$4.9$$

$$4.9$$

$$4.9$$

$$4.9$$

$$4.9$$

$$314$$

$$314$$

$$50.24$$

$$50.24$$

$$2143$$

$$V=\frac{4}{3}πr^{3}$$

$$V=\frac{4}{3}πr^{3}$$

$$201$$

$$201$$

$$201$$

$$201$$

$$201$$

$$201$$

$$201$$

$$A=4πr^{2}$$

$$A=4πr^{2}$$

$$A=4πr^{2}$$

**Radius**

**Sphere**

**Sphere**

**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 \_\_\_\_\_\_\_\_\_\_\_\_\_ $cm^{2}$. **(ORANGE)**

 **5.** The volume of the sphere is written mathematically as \_\_\_\_\_\_\_\_\_\_\_. **(BROWN)

6.** The volume of the sphere with radius $8 in$ is \_\_\_\_\_\_\_\_\_\_$ in^{3}.$ **(GREEN)**

**7.** The surface area of the sphere shown below is \_\_\_\_\_\_\_\_\_ $cm^{2}$. **(PINK)**

 

**8.** The volume of the pyramid given below is \_\_\_\_\_\_\_\_\_\_\_ $m^{3}$. **(LIGHT BLUE)**

 

**9.** The radius of a sphere with surface area $300 cm^{2}$ will be \_\_\_\_\_\_\_\_\_\_\_ $cm$. **(LIGHT GREEN)

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