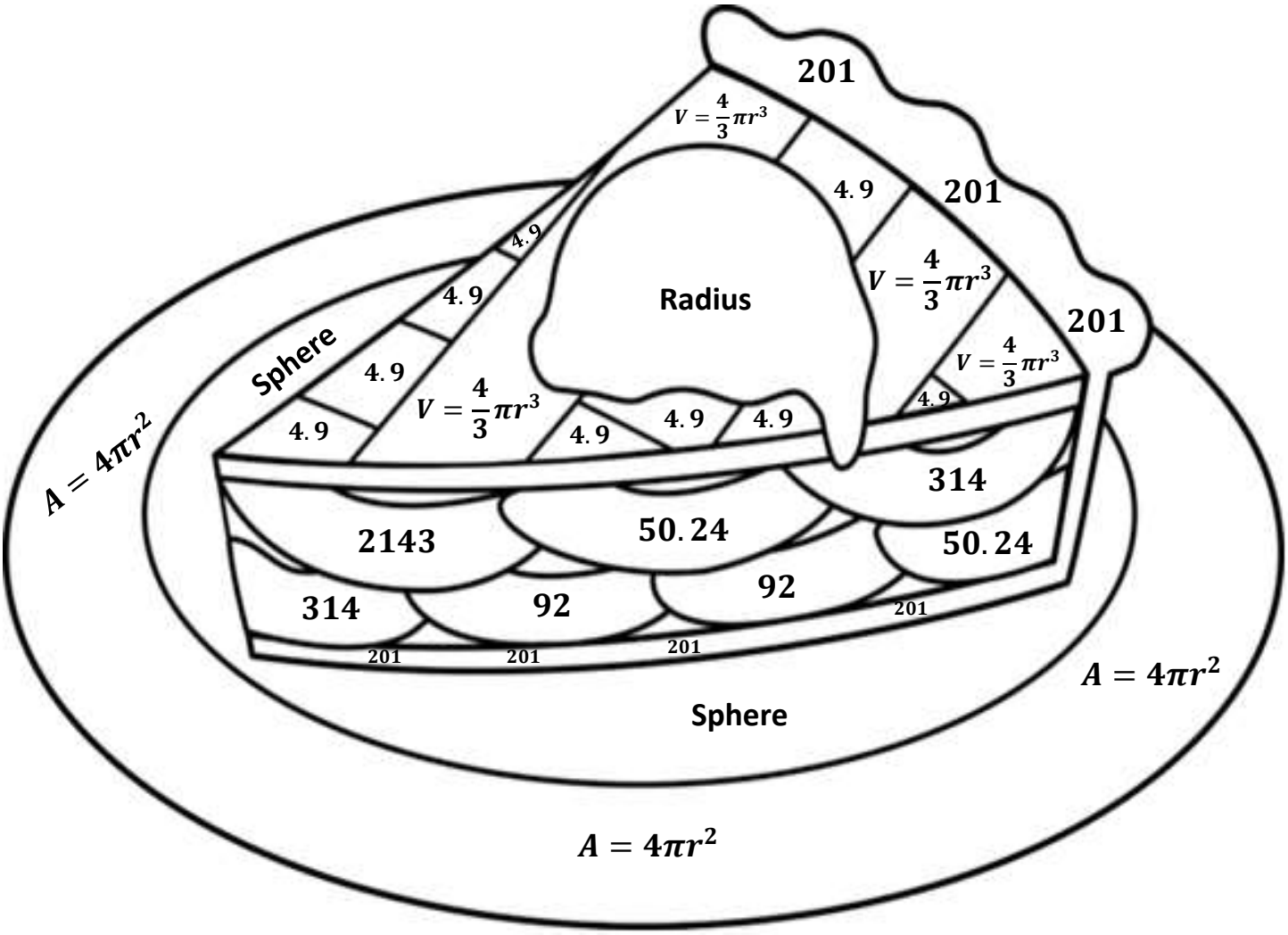
Name: _____ Period: _____ Date: _____

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



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)**

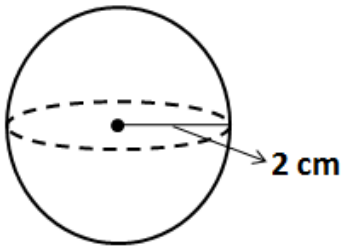
3. The surface area of the sphere is written mathematically as _____. **(LIGHT GREEN)**

4. The surface area of the sphere with diameter $8\ cm$ is _____ cm^2. **(ORANGE)**

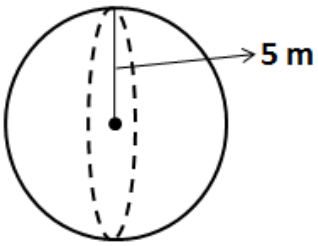
5. The volume of the sphere is written mathematically as _____. **(BROWN)**

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)**