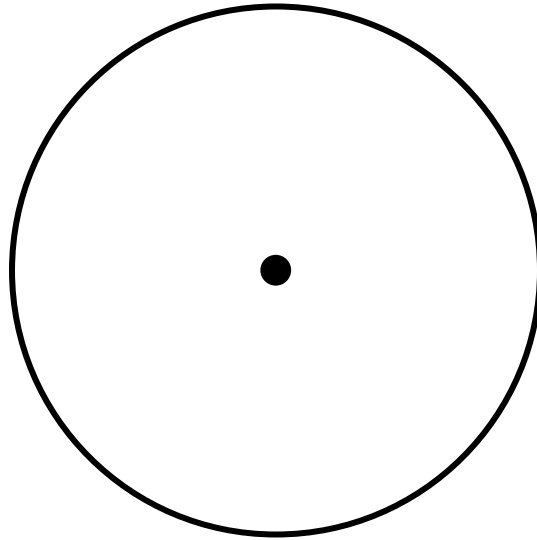


Performance Task: 4.7A
Angle Measures: Diego Cuts the Cake

Diego is cutting a circular cake as pictured below.



He has currently made one cut from the center of the cake to one edge. He wants to cut a slice with an angle measure of 45° . Use the model to draw the slice of cake Diego will cut. Write the unit fraction that names Diego’s slice of cake. Justify your reasoning.

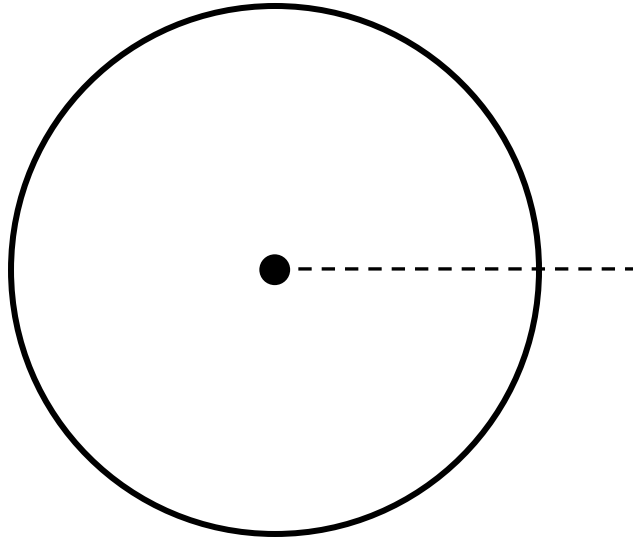
| | | | |
|---------------|---|---|---|
| | | | |
| Procedural | 0 | 1 | 2 |
| Conceptual | 0 | 1 | 2 |
| Communication | 0 | 1 | 2 |

Total points: _____



Performance Task: 4.7A
Angle Measures: Diego Cuts the Cake

Diego is cutting a circular cake as pictured below.



He has currently made one cut from the center of the cake to one edge as shown on the model. He wants to cut a slice with an angle measure of 45° . Use the model to draw the slice of cake Diego will cut. Justify your reasoning.

| | | | |
|---------------|---|---|---|
| | | | |
| Procedural | 0 | 1 | 2 |
| Conceptual | 0 | 1 | 2 |
| Communication | 0 | 1 | 2 |

Total points: _____



Performance Task: 4.7A
Angle Measures: Diego Cuts the Cake

Diego is cutting a circular cake. He has currently made one cut from the center of the cake to one edge. He wants to cut a slice with an angle measure of 45° . Draw a model of the slice of cake Diego will cut in relation to the entire circle. Write the unit fraction that names Diego’s slice of cake. Justify your reasoning.

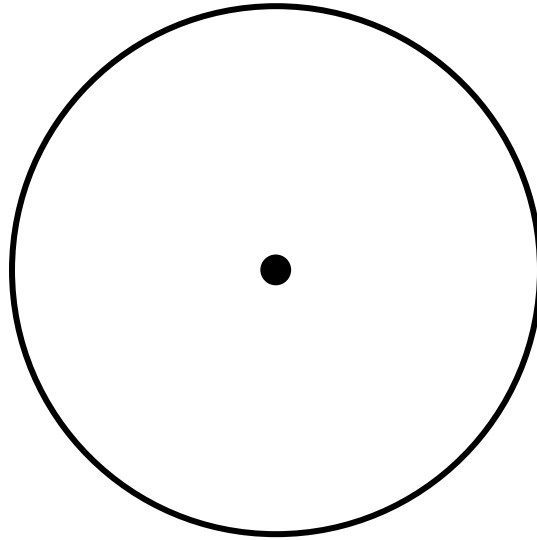
| | | | |
|---------------|---|---|---|
| | | | |
| Procedural | 0 | 1 | 2 |
| Conceptual | 0 | 1 | 2 |
| Communication | 0 | 1 | 2 |

Total points: _____



Performance Task: 4.7A
Angle Measures: Diego Cuts the Cake

Diego is cutting a circular cake as pictured below.



He has currently made one cut from the center of the cake to one edge. He wants to cut a slice with an angle measure of 45° .

1. Draw the cut Diego has made from the center of the circle to one edge.
2. Draw an angle with a 90° measure on the cake using the first cut line as one ray.
3. How does a 45° angle relate to a 90° angle?

4. Draw the cut that completes a slice of cake with an angle measure of 45° .

5. Measure the angle using a protractor.



Name _____ Date _____

6. How many of these same-size slices of cake can Diego cut from the cake?

7. What is the unit fraction that represents one slice of the cake?

