Optional Circles in Context Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tammy is making paper crowns for her little sister, Jenna, and all of Jenna’s friends. The circumference of each crown is going to be 21 inches.

1. What will be the diameter of each crown?

Jenna took one of the completed crowns and traced the headband (or circumference) onto poster paper. She is coloring the whole circle purple.

1. What is the area of the purple-colored circle?

Tammy cut several identical strips of purple and pink paper, and then glued them into rings. The radius of each ring is 1.5 inches.

1. What is the circumference of each ring?

Tammy and Jenna linked 50 rings together and hung them as a decorative chain.

1. What is the approximate length of the chain?
2. How did you arrive at this estimate?

Optional Circles in Context - KEY

Tammy is making paper crowns for her little sister, Jenna, and all of Jenna’s friends. The circumference of each crown is going to be 21 inches.

1. What will be the diameter of each crown? 6.69 inches

Jenna took one of the completed crowns and traced the headband (or circumference) onto poster paper. She is coloring the whole circle purple.

1. What is the area of the purple-colored circle? 35.11 in2

Tammy cut several identical strips of purple and pink paper, and then glued them into rings. The radius of each ring is 1.5 inches.

1. What is the circumference of each ring? 9.42 inches

Tammy and Jenna linked 50 rings together and hung them as a decorative chain.

1. What is the approximate length of the chain? 150 inches (or 12.5 feet)
2. How did you arrive at this estimate? Diameter of 3 inches × 50 rings