



CIRCLES: *Central Angles,
Arc Lengths,
& Arc Measures*

TASK CARD ACTIVITY

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Circles: Arcs & Angles

Task Cards!

Objective: To practice finding arc lengths and angle measurements in circles. This activity was designed for a high school level geometry class.

Directions:

- 1) Print, cut, and laminate the 20 task cards. Also, copy enough recording worksheets for each student. These are the ways I have run this activity:
 - Place two cards at each station and have students move in small groups from station to station after approximately 3-4 minutes. (This way you only have to copy one set of cards)
 - Students work in pairs and are given a card set. They work together to answer each card. You will need to print, cut, and laminate many sets. I typically prefer this because it leads to more one-on-one discussion.
- 2) They may check their answers by scanning the QR code on the card. A mobile device is required with a QR scanner app. An internet connection is not required to scan the code. It's very simple to set up, feel free to email me if you have any questions! A non-QR code version is also included.

Includes student worksheet, 20 task cards (both with or without QR codes), and answer key.

The image displays four task cards, each with a circle diagram and a problem to solve. Each card includes a QR code in the bottom right corner.

- Card 1:** A circle with center O . Points Q , P , and R are on the circumference. $\angle QOP = 74^\circ$ and $\angle ROP = 39^\circ$. The problem asks to find the measure of arc PST .
- Card 14:** A circle with center O . Points R , V , U , and S are on the circumference. $\angle ROV = 68^\circ$ and $\angle VOU = 16^\circ$. The radius $OR = 12$. The problem asks to find the measure of arc ST .
- Card 8:** A circle with center O . Points M , L , N , and P are on the circumference. $\angle MOP = 82^\circ$ and $\angle NOP = 53^\circ$. $\angle MOP$ is labeled as $(11x - 10)^\circ$ and $\angle NOP$ is labeled as $(2x)^\circ$. The problem asks to find the value of x .
- Card 20:** A circle with center O . Points V , W , U , and Y are on the circumference. $\angle WOV = 17^\circ$. The radius $OU = 7$. The problem asks to find the length of arc WUY .