



# ANGLE RELATIONSHIPS

## TASK CARD ACTIVITY

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# Angles Measures Task Cards!

**Objective:** To practice finding missing angle measures using angle relationships. Students must have an understanding of vertical angles, complementary angles, supplementary angles, linear pairs, angle bisectors, and perpendicular lines. Angles given as algebraic expressions along with verbal descriptions are also included. 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 three sample task cards. Each card has a decorative border and a QR code in the bottom right corner.

- Card 1:** "Find the measure of each numbered angle." It shows two intersecting lines forming four angles. The top angle is labeled  $108^\circ$ . The bottom-left angle is labeled 1, the bottom-right angle is labeled 3, and the bottom-left angle is labeled 2.
- Card 7:** "Find the values of x and y." It shows two intersecting lines. The top-left angle is  $(7y - 4)^\circ$ , the top-right angle is  $(3y - 5)^\circ$ , the bottom-left angle is  $59^\circ$ , and the bottom-right angle is  $(12x + 3)^\circ$ .
- Card 14:** " $\angle A$  and  $\angle B$  are complementary angles. If  $m\angle A = x + 10$  and  $m\angle B = 13x - 4$ , find the measures of both angles."
- Card 20:** " $\angle X$  is complementary to  $\angle Y$  and supplementary to  $\angle Z$ . If  $\angle Z$  is eight less than three times  $\angle X$ , find the measures of all three angles."