



**Title:** [Sir Cumference and the Great Knight of Angleland](#) (Lexile® measure: AD450L)

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**Description:** To earn his knighthood, Radius must find and rescue a missing king. His father, Sir Cumference, and his mother, Lady Di of Ameter, give him a circular medallion (a protractor) that he uses to find his way through a maze of many angles.

### Quantile Skill and Concept(s)

Identify angles (acute, right, obtuse, and straight) (Quantile® measure: 530Q)

### Book-Directed Discussion

After reading the book with your child, note that a right angle is shown on page 4. Ask your child to show which flag Radius will ride toward when he travels at a straight angle (the flag on the right). The little town on page 10 is called “cute.” Ask your child to find acute angles in the picture, e.g., rooftops, dormers above windows, wood framing, tree trunks. Then ask, “Where are there right angles?” (e.g., windows, the man pointing) and “Why are the mountains on page 11 called the ‘Mountains of Obtuse?’” and “Where are other obtuse angles?” (e.g., wood framing adjacent to acute angles, the bend at Radius’s elbow) Each time the measure of an angle is given, ask your child whether the angle is acute (between  $0^\circ$  and  $90^\circ$ ), right (equal to  $90^\circ$ ), obtuse (between  $90^\circ$  and  $180^\circ$ ), or a straight angle (equal to  $180^\circ$ ).

### Foundations

Use the corner of an index card or a piece of paper to determine acute, right, obtuse, or straight angles. Show your child how to place the corner of the card in the corner of the angle, with one side of the card along one side of the angle. Where the other side of the angle sits compared to the card determines the type of angle. Show your child right angles – where both edges of the card match the edges of the angle; acute angles – where one side of the card hides one side of the angle; and obtuse angles – where both sides of the angle show around the card. A straight angle will extend along a single edge of the card.

### Challenges and Connections

Review some of the pictures in the book to identify the four types of angles (acute, right, obtuse, and straight). Look around your home to find and name more angles.



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