Measuring Angles

Measure and sketch with a protractor

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Today we will...

WE ARE LEARNING TO

- Learn what an angle and vertex are
- Measure angles in whole-number degrees
- Sketch angles of a given size

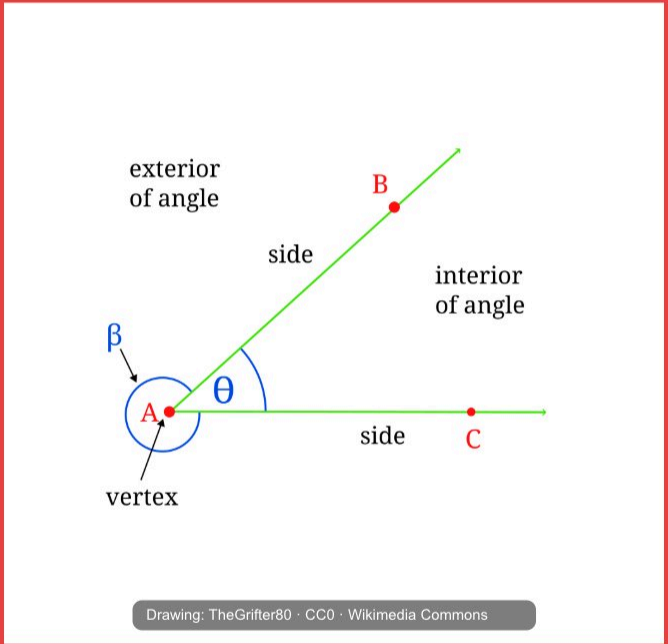
SUCCESS LOOKS LIKE

- I can line up the protractor on the vertex
- I can read degrees and say acute, right, or obtuse
- I can sketch an angle like 60 degrees

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What Makes an Angle?

- An angle is two rays meeting at a point.
- That point is the vertex (corner point).
- We measure the opening in degrees.



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YOUR TOOL

180°

degrees on your protractor

A protractor is a half-circle that goes from 0 to 180.



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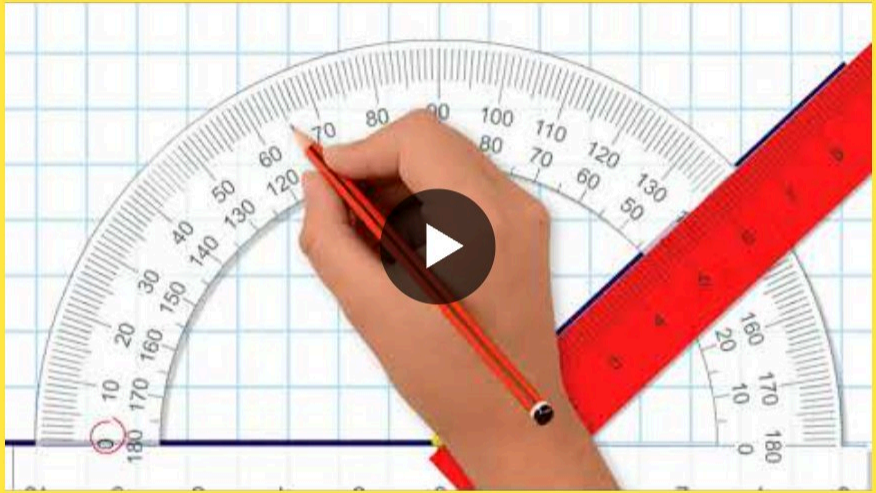
Think, pair, share

Where do you see a small opening and a wide opening?



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Watch: Measure Like a Pro

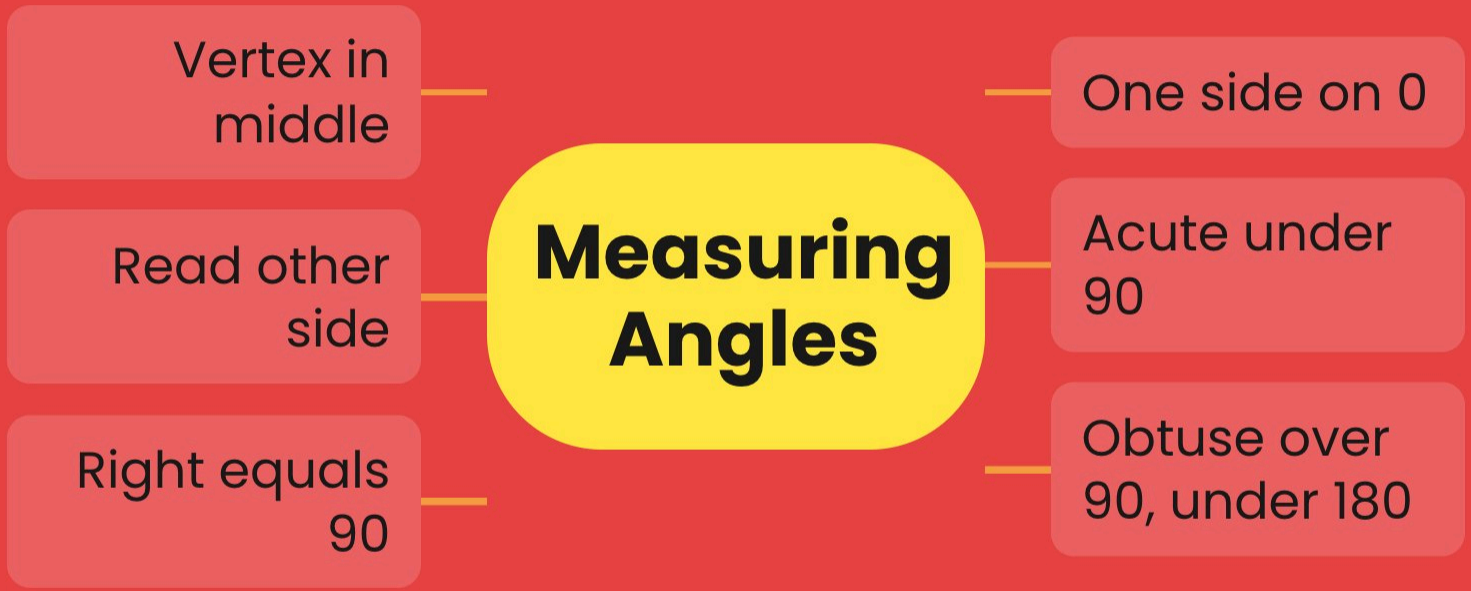


▶ 0:00 – 4:07

- Where the middle mark goes
- Which zero line lines up
- How to read the number

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Measuring Checklist



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Watch: Sketch It!



▶ 0:00 – 5:00

- How to draw a starting ray
- Where to mark your degrees
- How to finish the second side

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Your task

Measure and sketch angles with your protractor.

1. Measure the 3 angles on the board.
2. Sketch angles of 30, 90, and 120 degrees.
3. Check with your partner: middle, zero, read right?

15 min

In pairs

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Don't Mix Up the Zeros!

- Protractor has two rows of numbers.
- Start at 0 on the side your ray uses.
- If it looks small, answer must be under 90.



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What Do You Think?

Which angle is trickiest to sketch well?

- **A** A sharp 30 degree angle
- **B** A square 90 degree angle
- **C** A wide 150 degree angle

Vote with your hands, then explain why.

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Exit ticket

1. One thing I learned today...

2. Sketch a 70 degree angle and label it.

3. One question I still have...

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