

Comparing angles to a right angle – acute and obtuse

WHAT THIS LESSON TEACHES

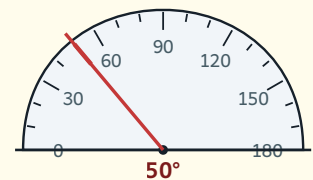
A right angle is a square corner, exactly a quarter turn, like the corner of a copybook or a window pane. An angle that opens less than a square corner is acute; an angle that opens more than a square corner is obtuse.

- The small opening of scissors held only slightly apart is an acute angle.
- The wide opening of a book laid almost flat is an obtuse angle.

MODEL THIS ON THE BOARD

IS THIS ANGLE ACUTE OR OBTUSE?

- 1 The drawn angle opens to 50° .
- 2 A right angle (square corner) is exactly 90° .
- 3 50° is smaller than the square corner, so the angle is acute.



DISCUSSION STARTER

REFLECT Does checking against a right angle make acute and obtuse angles easier to name?

ANSWER KEY

Scaffold: visual check on the page

Q1: right

Q2: acute

Q3: obtuse

a) Always — Lesson states a right angle is exactly a quarter turn.

b) Always — Acute angles open less than a square corner.

c) Always — Lesson defines obtuse as opening more than a square corner.

d) Sometimes — Only when opened a tiny bit; wider openings can be right or obtuse.

EXTENSION SHEET · STRETCH ANSWERS

S1: 17° is acute

S2: 47° is acute

S3: 15° is acute

S4: 47° is acute

S5: 73° is acute