

Key Vocabulary
angle
right angle
acute
obtuse
horizontal
vertical
diagonal
parallel
perpendicular
two-dimensional
polygon
line of symmetry
reflection
mirror line
isosceles
equilateral
scalene
quadrilateral
rhombus
parallelogram
trapezium

01.06.20

I can identify acute, obtuse
and right angles.

What are angles?

An angle is a measure of a turn, measured in **degrees or °**.

There are **360°** in a full turn.

You can find out the size of an angle using a protractor.

Watch these videos to find out more:

<https://www.bbc.co.uk/bitesize/topics/zb6tyrd/articles/zg68k7h>

<https://www.youtube.com/watch?v=4y6HRjxVAel>

Here are the 3 angles we are going to explore today:

Task 1:

Look around your house and find examples of each type of angle.

Can you make the angles using objects in your house?

An angle is created when two straight lines meet at a point or intersect.

Right angle

The intersection of perpendicular lines creates a right angle.



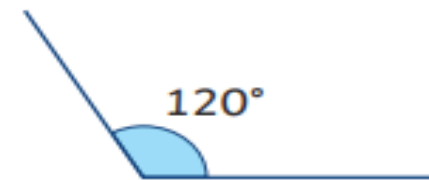
Acute angle

Any angle measuring more than 0 degrees and less than 90 degrees is acute.



Obtuse angle

Any angle measuring more than 90 degrees but less than 180 degrees is obtuse.



Activities:

1. Fill in these sentences:

A right angle is _____ degrees.

Acute angles are _____ than a right angle.

Obtuse angles are _____ than a right angle.

2. Label the angles. O for obtuse, A for acute and R for right angle.

Five angles are shown with red arcs indicating the angle to be labeled. Below each angle is a blue square box for the answer.

- Angle 1: Acute angle (A)
- Angle 2: Obtuse angle (O)
- Angle 3: Right angle (R)
- Angle 4: Obtuse angle (O)
- Angle 5: Acute angle (A)

3. Draw an example of a right angle, acute angle and an obtuse angle.

Can you estimate the angles degrees?

4. Sort these angles into right, acute or obtuse.

A collection of angles for sorting. It includes four circular diagrams with angles, a grid-based angle, and two labeled boxes for 87 degrees and 97 degrees.

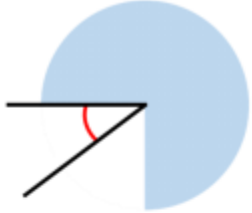
5. Find the some of the largest acute angle and the smallest obtuse angle in the list.

- 12°
- 98°
- 87°
- 179°
- 90°
- 5°


_____ + _____ =

Challenge:


1.



I know the angle is not obtuse.




Teddy



Alex

I know the angle is acute.

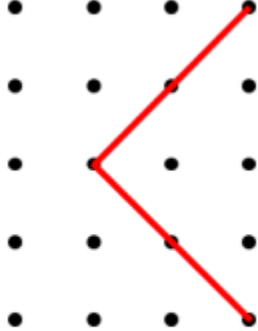


Whitney

I think the angle is roughly 45° .

Who is correct?
Explain your reasons.

2.



Is the angle acute, obtuse or a right angle?
Can you explain why?