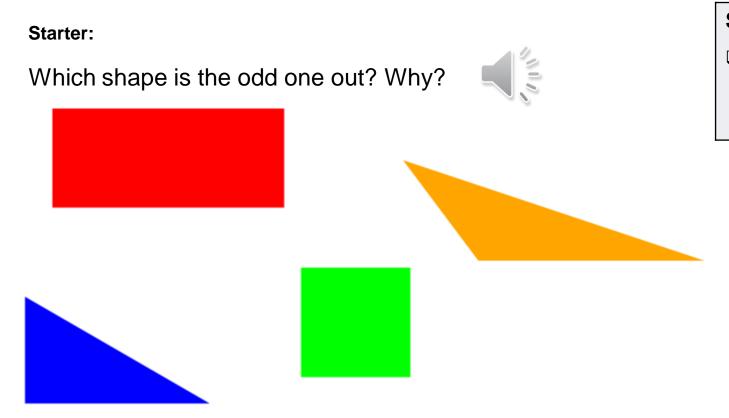


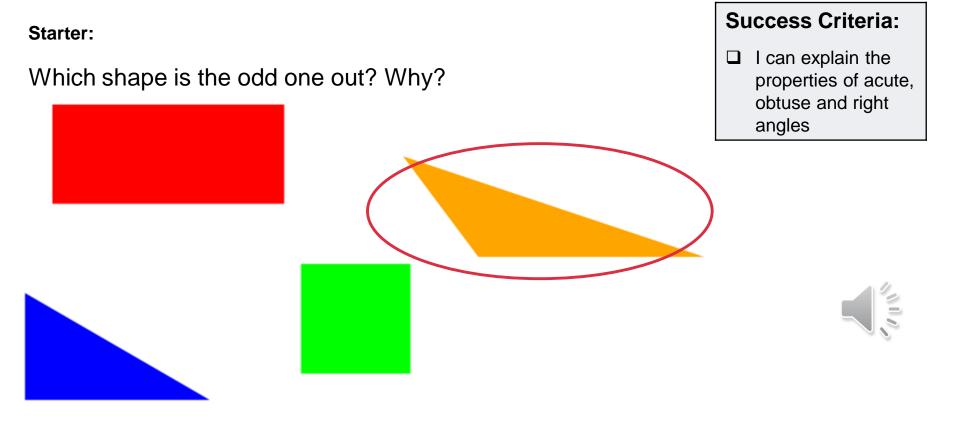
Types of angle Year 4

Properties of Shape



Success Criteria:

I can explain the properties of acute, obtuse and right angles

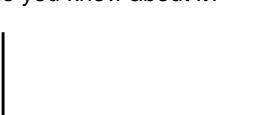


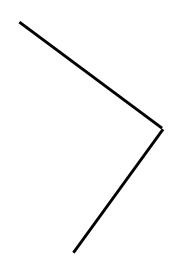
The scalene triangle is the odd one out as it is the only shape NOT to have a right angle in it.



Talking time:

What angle is this? What do you know about it?





What about this one?

Talking time:

What angle is this? What about this one? What do you know about it?



Both angles are right angles they are just in a different position on the page. A right angle is two lines that meet at a 90 degree angle. This is shown by a little square where the two lines meet.

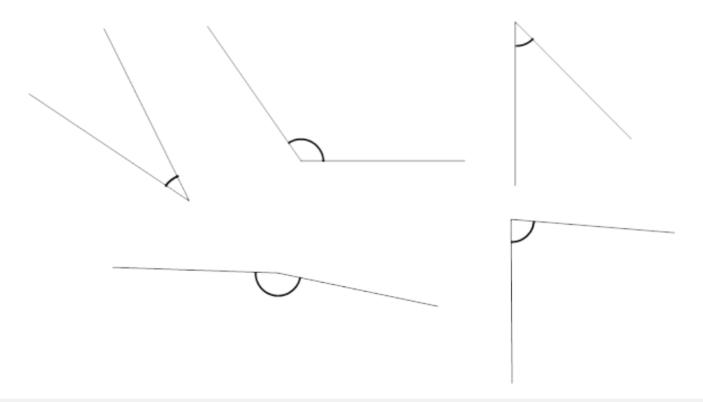
Talking time:

Some angles are smaller than a right angle. Some angles are larger than a right angle.

Sort these angles into their two groups.

Smaller than 90 degrees

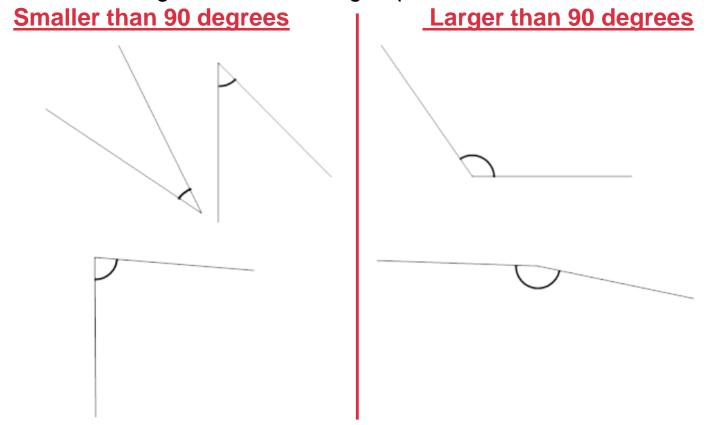
Larger than 90 degrees



Talking time:

Some angles are smaller than a right angle. Some angles are larger than a right angle.

Sort these angles into their two groups.





Activity 1:

Right angles are _____ degrees.

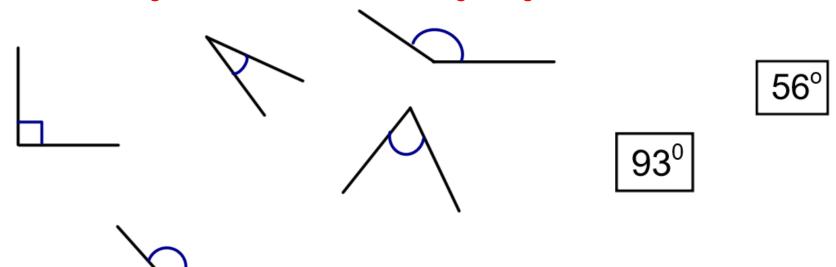
Acute angles are _____ than right angles and are ____ than 90

degrees.

Obtuse angles are _____ than right angles and are ____ than 90

degrees.

Now Sort these angles into acute, obtuse and right angles.



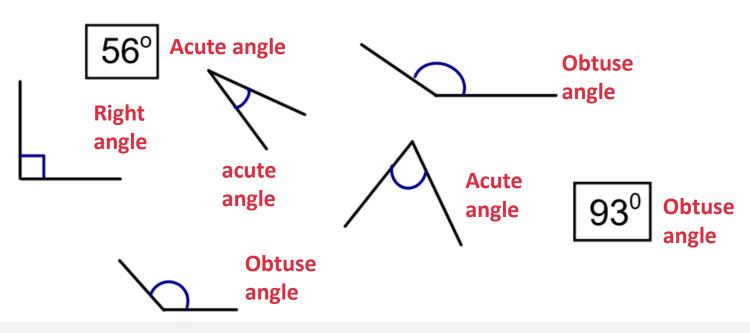
Activity 1:

Right angles are 90 degrees.

Acute angles are **smaller** than right angles and are **less** than 90 degrees.

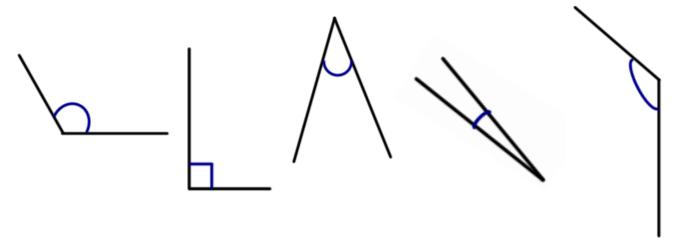
Obtuse angles are **larger** than right angles and are **greater** than 90 degrees.

Sort these angles into acute, obtuse and right angles.



Talking time:

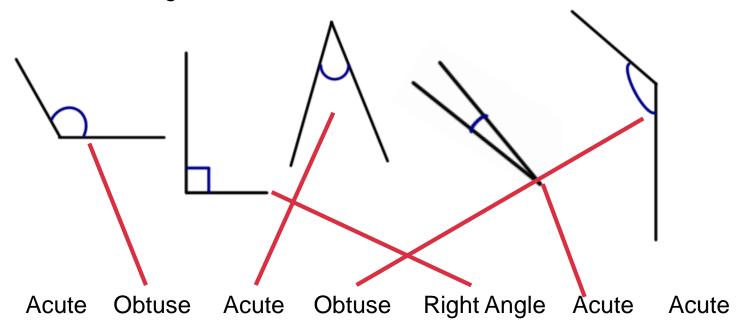
Match the angles with the correct label. Be careful there are some red herrings!



Acute Obtuse Acute Obtuse Right Angle Acute Acute

Talking time:

Match the angles with the correct label. Be careful there are some red herrings!



Activity 2:

Draw a right angle in your book.

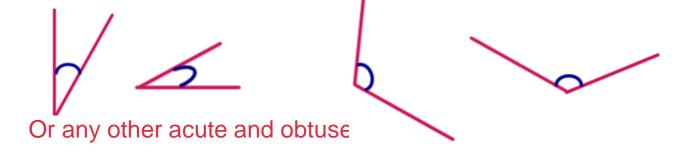
Using the right angle as a guide, draw two acute angles and two obtuse angles.

Using the right angle at 90 degrees, estimate the size of your angles.

Activity 2:

Draw a right angle in your book.

Using the right angle as a guide, draw two acute angles and two obtuse angles.



Using the right angle at 90 degrees, estimate the size of your angles.

Talking time:







Paul says "I know this angle is acute."

Libby says "I know the angle is smaller than a right angle."

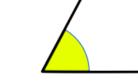




Tabatha says "I think the angle is less than 90 degrees."

Who do you agree with? Explain why.

Talking time:



Paul says "I know this angle is acute."

Libby says "I know the angle is smaller than a right angle."

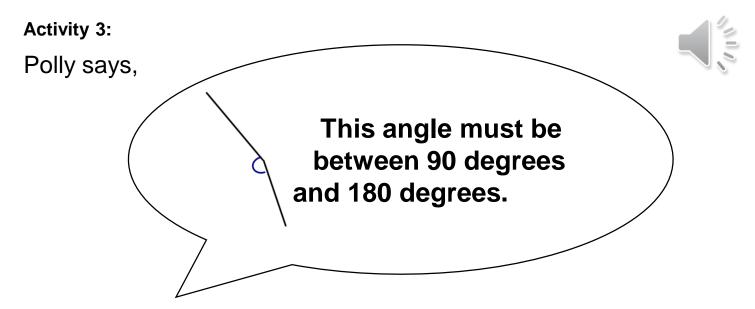




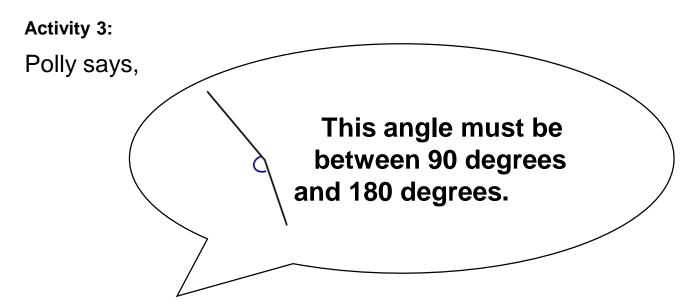
Tabatha says " I think the angle is less than 90 degrees."

Who do you agree with? Explain why.

All are correct. An angle smaller than a right angle is called acute. The angle is smaller than a right angle because the line has not reached vertical yet and an acute angle must be between 0 and 90 degrees.

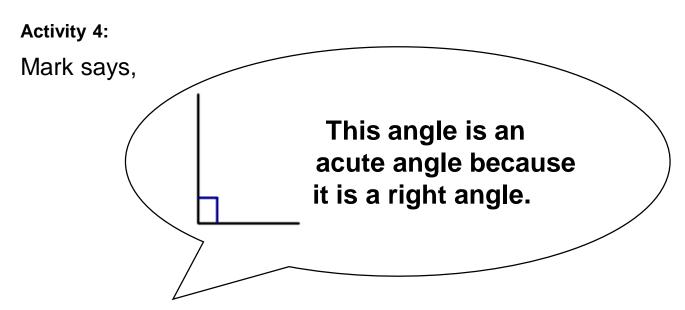


Explain why Polly is correct.



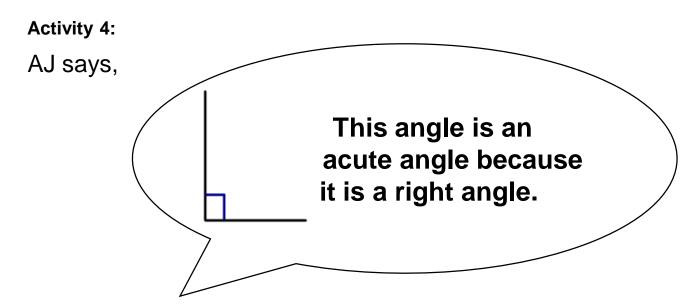
Explain why Polly is correct.

The angle is clearly bigger than a right angle so is an obtuse angle. Obtuse angles are bigger than 90 degrees but smaller than 180 degrees.





Is Mark correct? Explain your answer.



Is Mark correct? Explain your answer.

Mark is incorrect.

A right angle is 90 degrees whereas an acute angle is less than 90 degrees.

Evaluation:

True or False?

Success Criteria:

☐ I can explain the properties of acute, obtuse and right angles

- 1. An acute angle is smaller than an obtuse angle.
- 2. A right angle is both an acute angle and an obtuse angle.
- 3. Two right angles have a total of 108 degrees.
- 4. An angle greater than 45 degrees is called an obtuse angle.
- 5. To draw an acute angle you have to always use a protractor.
- 6. Angles are the measure of a turn.
- 7. When two lines meet at a point an angle is formed.

Evaluation:

True or False?

Success Criteria:

- I can explain the properties of acute, obtuse and right angles
- 1. An acute angle is smaller than an obtuse angle. TRUE
- 2. A right angle is both an acute angle and an obtuse angle. **FALSE**
- 3. Two right angles have a total of 108 degrees. **FALSE**
- 4. An angle greater than 45 degrees is called an obtuse angle. **FALSE**
- 5. To draw an acute angle you have to always use a protractor. FALSE
- 6. Angles are the measure of a turn. TRUE
- 7. When two lines meet at a point an angle is formed. TRUE