15.7.2021

L.O. to compare angles

Success Criteria:

- I can identify right angles, representing the angle using a small square.
- I can use an angle-checker to identify whether a given angle is greater than or smaller than a right angle.
- I can use the vocabulary acute and obtuse to describe angles.

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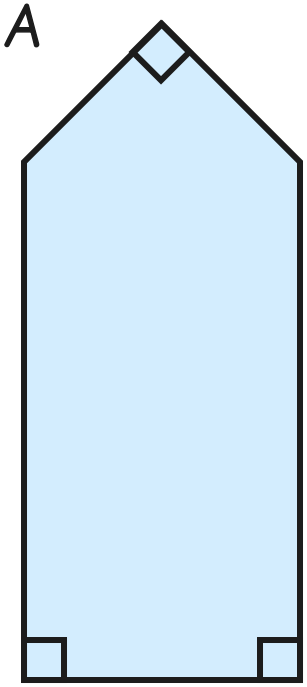
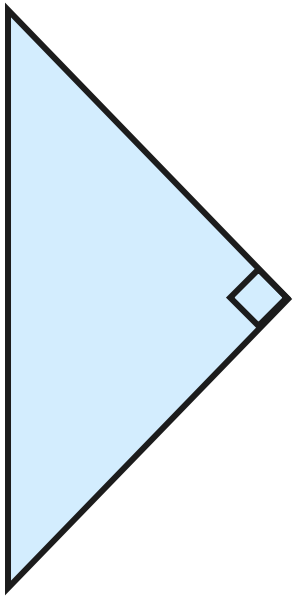
Revisit:

How many right angles does each shape have?

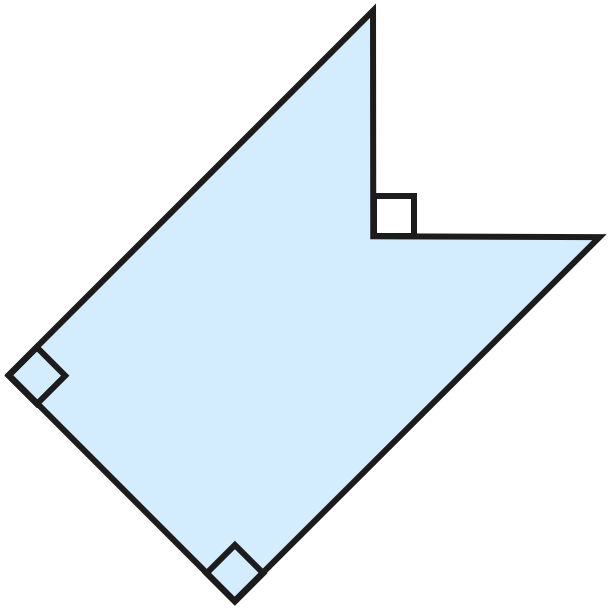
A



B



C



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What Is a Right Angle?

Here we can see a quarter turn.

Instead a of a curved arc to show a right angle, we use two straight lines to create a small square. This is because right angles are square corners.

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What Is a Right Angle?

A right angle can face any direction.

A right angle can be in any position.

A right angle always has a quarter turn between two straight lines.

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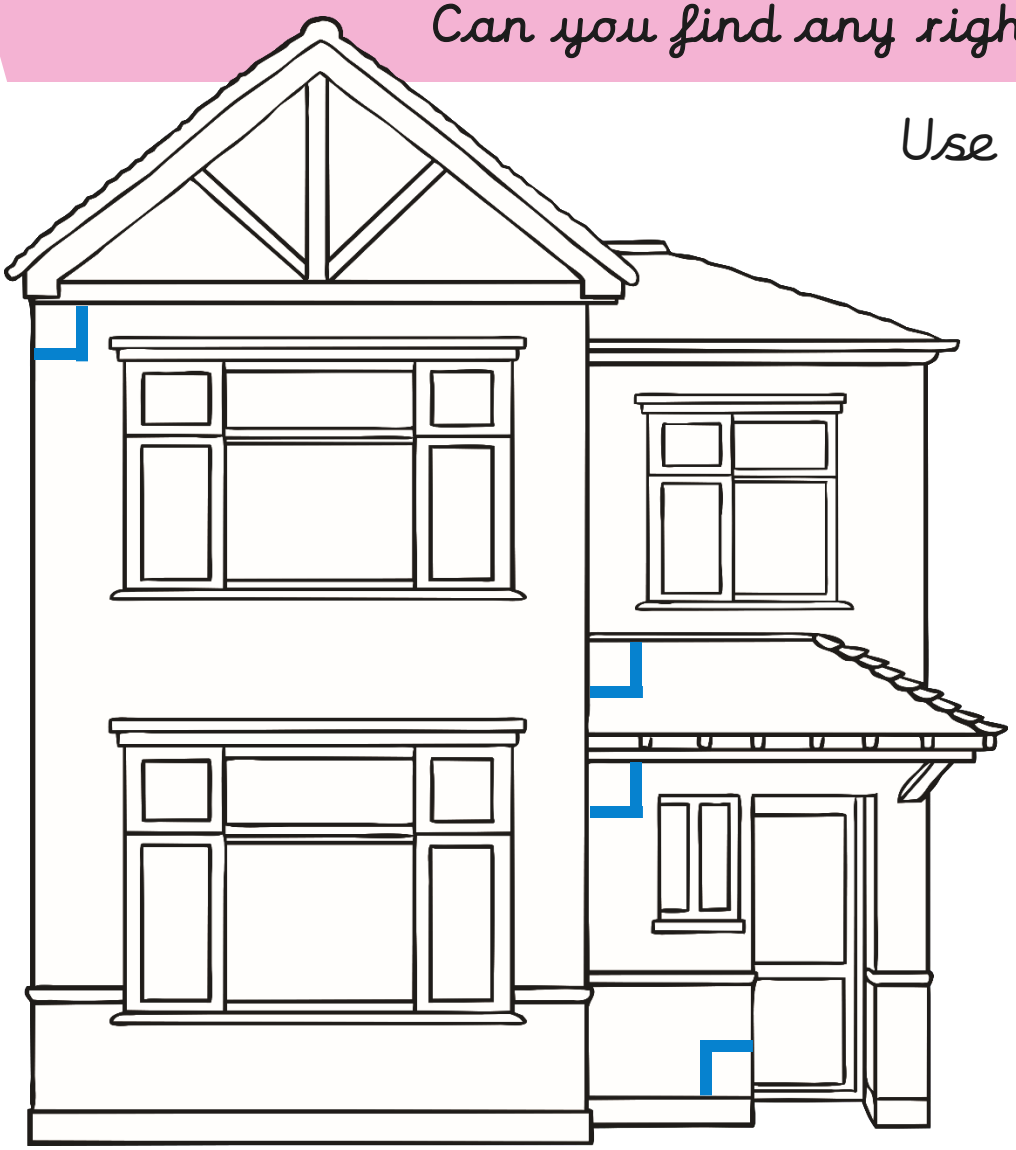
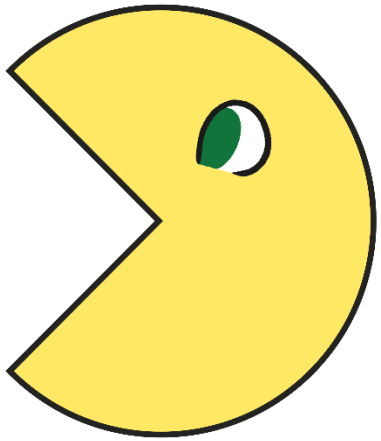
Find the Right Angles

Can you find any right angles in this picture?



Use a right-angle finder to help.

Here are a few of the right angles. Did you find any more?



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Angles Smaller Than a Right Angle

Here are some examples of angles that are **smaller** than a right angle.

A curved line is used to show an angle smaller than a right angle.

An angle can be in any position.

These angles are all less than a quarter turn.

Angles less than a right angle are called **acute**.

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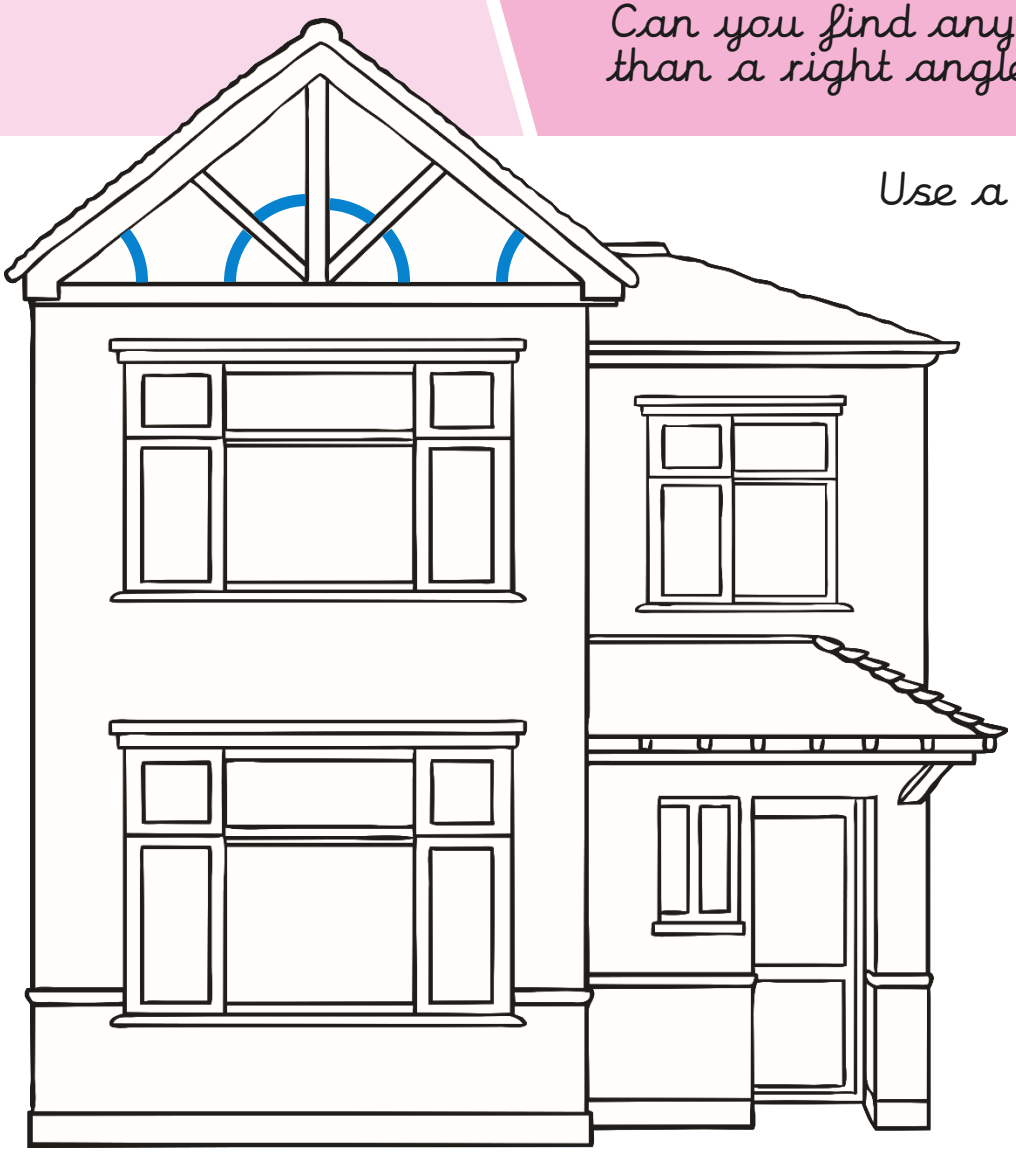
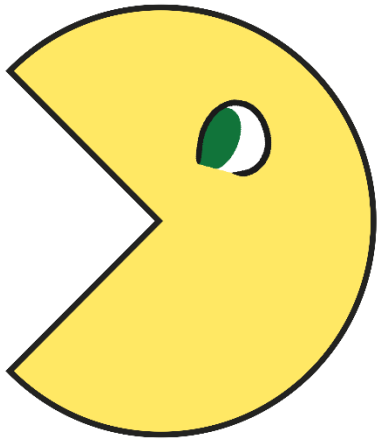
Find Angles Smaller Than a Right Angle

Can you find any angles that are <u>smaller</u> than a right angle in this picture?



Use a right-angle finder to help.

Here are some acute angles. Did you find any more?



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Angles Greater Than a Right Angle

Here are some examples of angles that are **greater** than a right angle.

A curved line is used to show an angle greater than a right angle.

An angle can be in any position.

These angles are all greater than a quarter turn.

These angles are greater than a right angle, but less than a straight line. They are called **obtuse angles**.

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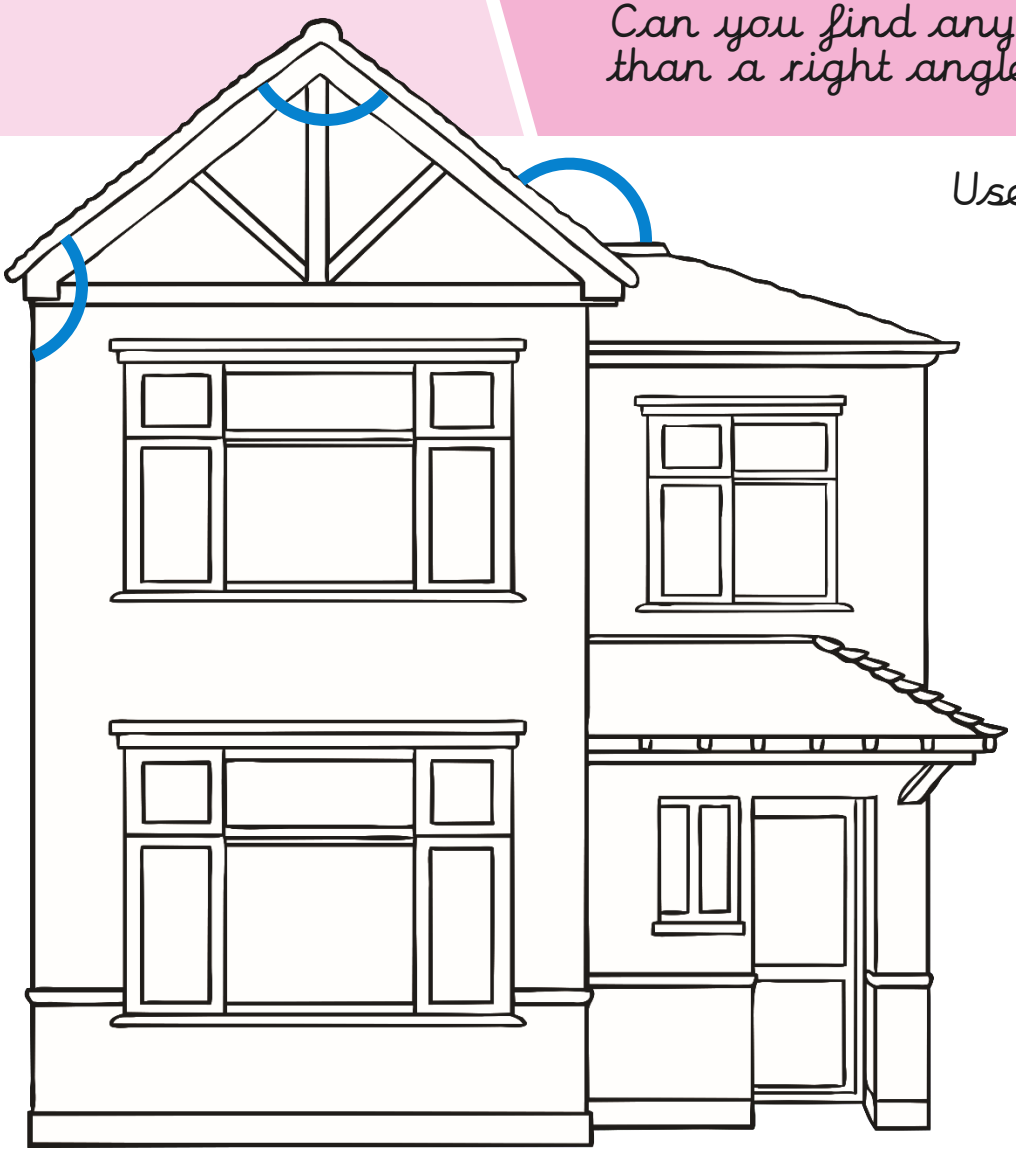
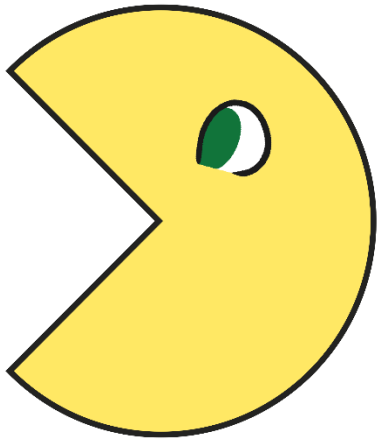
Find Angles Greater Than a Right Angle

Can you find any angles that are **greater** than a right angle in this picture?



Use a right-angle finder to help.

Here are some obtuse angles. Did you find any more?



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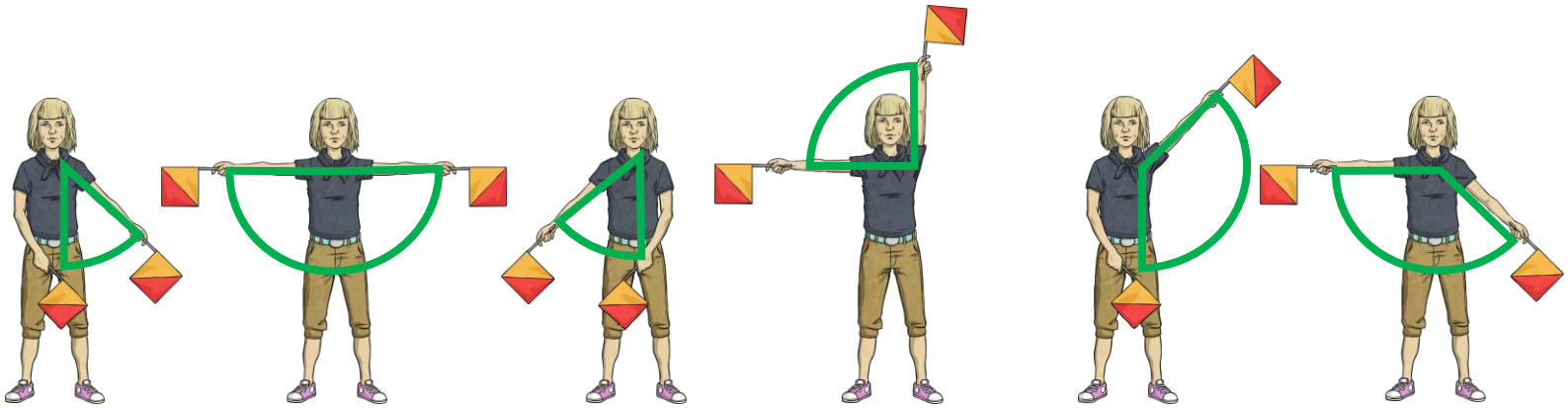
Challenge:

Semaphore is a signalling system which involves waving a pair of hand-held flags in various positions to indicate letters of the alphabet.

Here is the name of a fruit shown using semaphore.
Are the angles right angles or greater or less than a right angle?



G	R	A	P	E	S
Less than	Greater than	Less than	Right angle	Greater than	Greater than

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Challenge:

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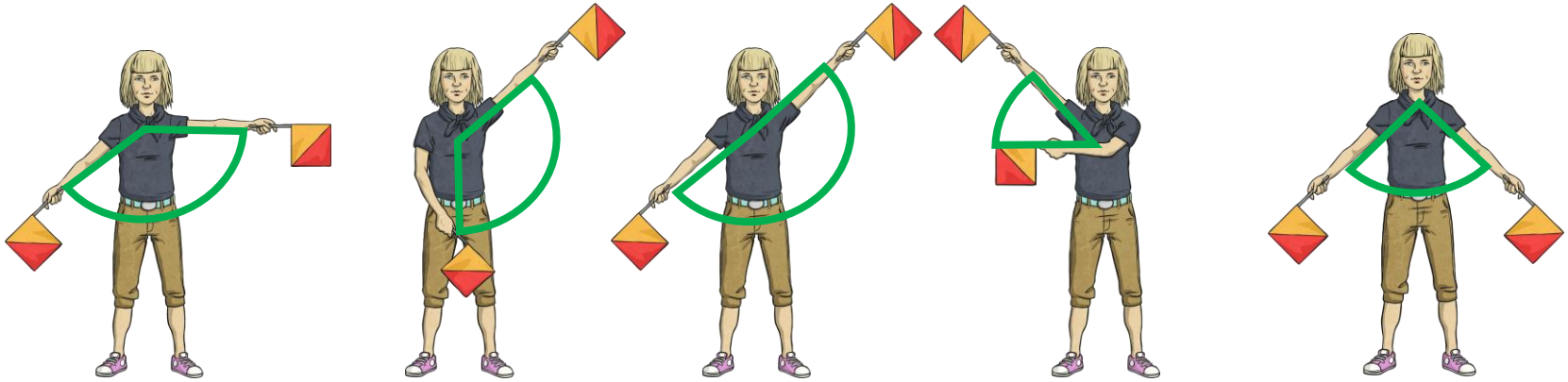

M	E	L	O	N
Greater than	Greater than	Greater than	Less than	Right angle

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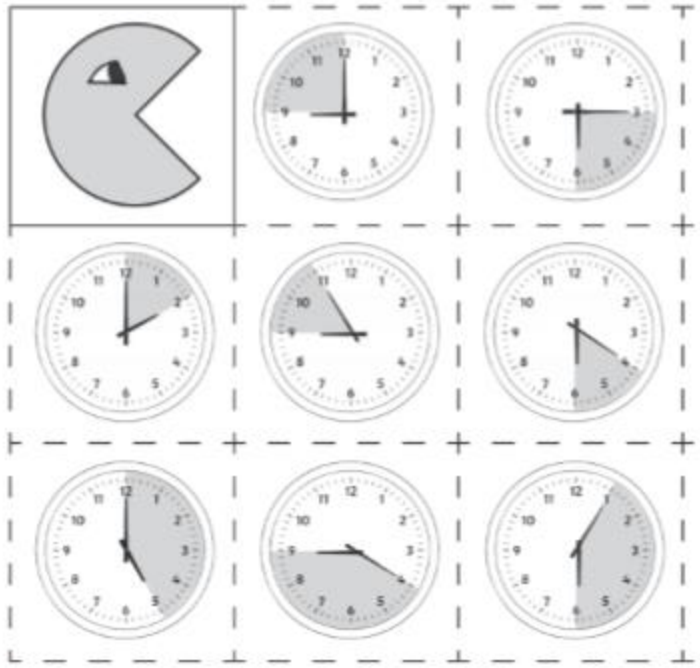
Task:

L.O. to compare angles

15.7.2021

Check the angles on the clocks with your angle checker. Sort them into the correct column of the table.

Smaller than a right angle	Right angles	Greater than a right angle



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Next Step:

Using the right angle finder, identify the acute, obtuse and right angles.

Label these angles on the house:

A = acute

O = obtuse

R = right angle

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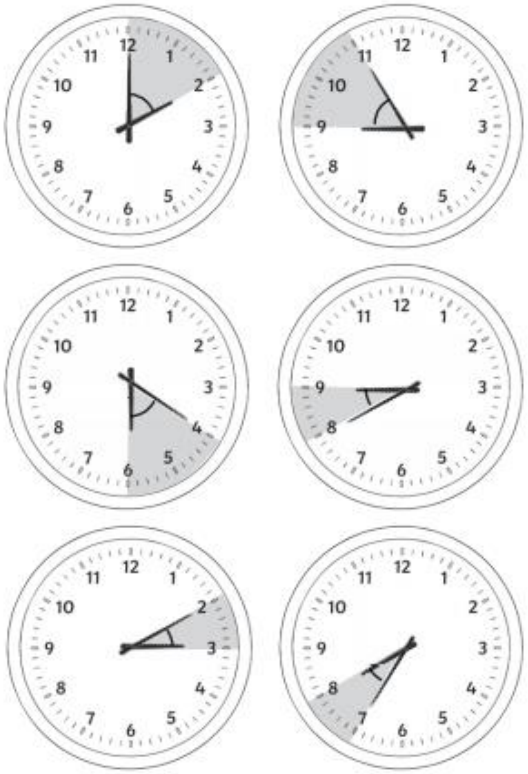
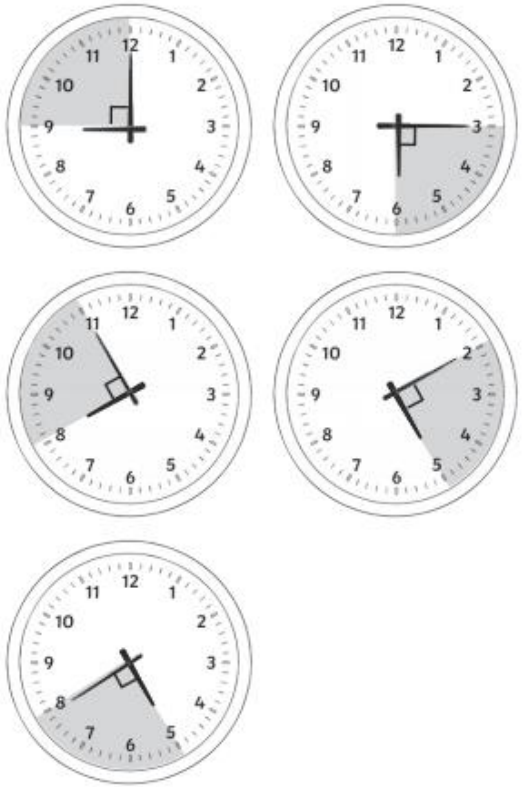
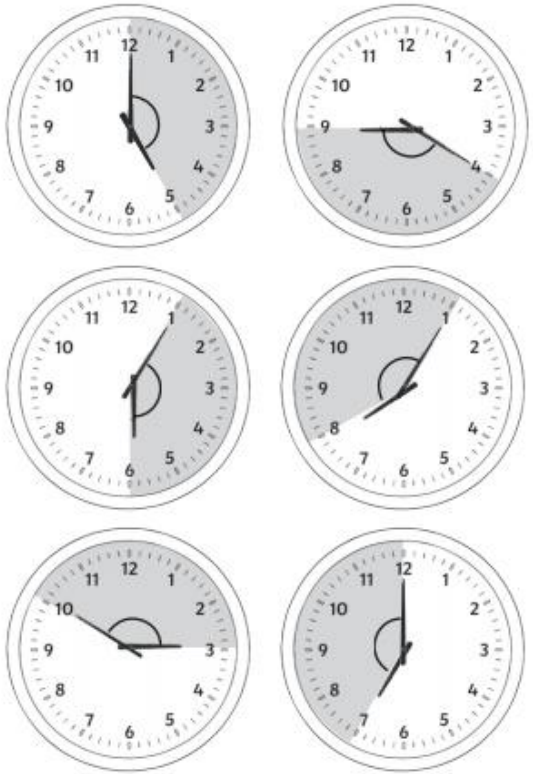
Answers:

Smaller Than a Right Angle	Right Angles	Greater Than a Right Angle
		

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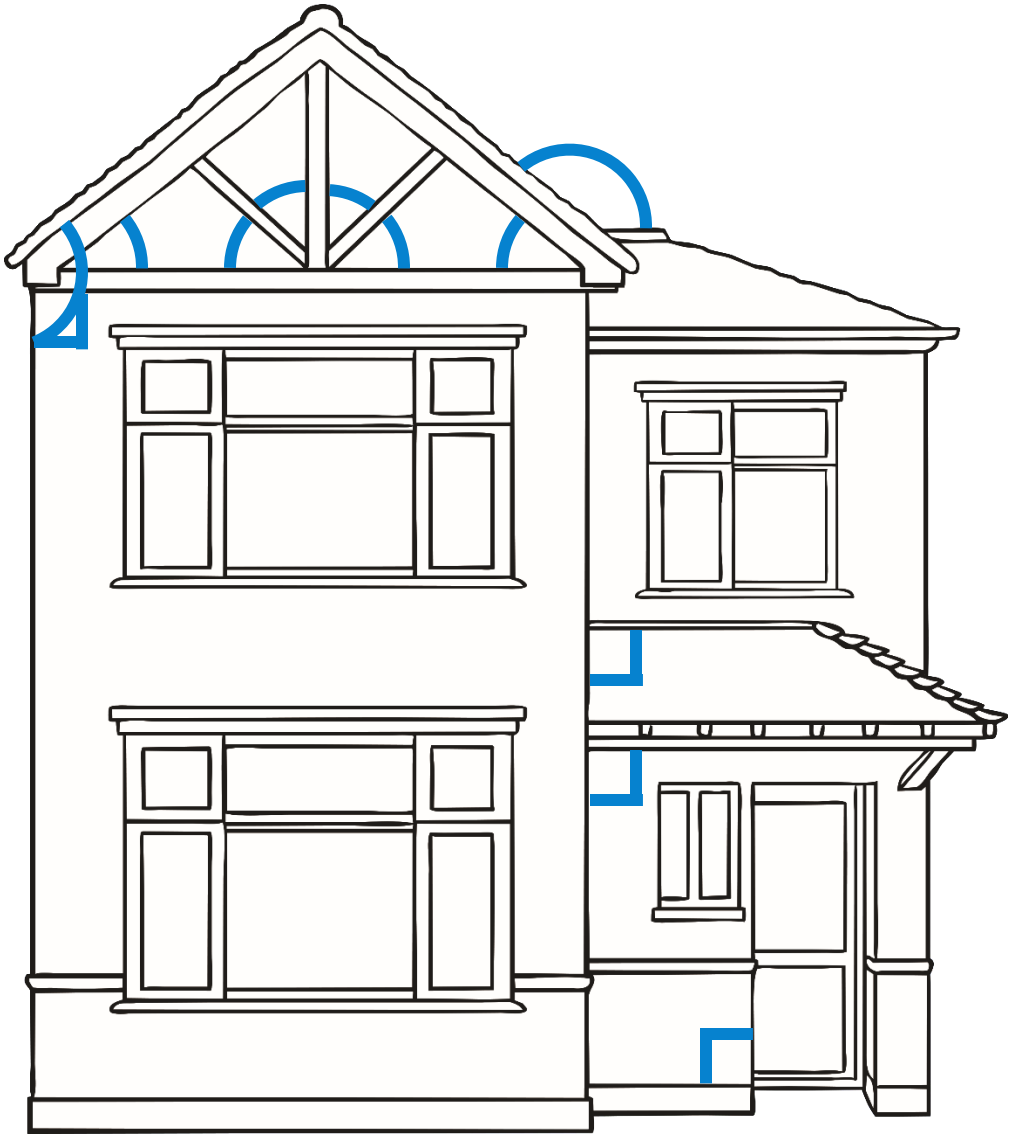
Answers:



Did you find some of these angles?

There are lots more which can also be found!

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