PROPERTY OF SHAPE – DAY 1

To be able to identify angles

SUCCESS CRITERIA

✓I can use my knowledge of shapes and their properties to identify acute, right and obtuse angles

✓I can explain my reasoning when using my knowledge of shapes and their properties to identify acute, right and obtuse angles

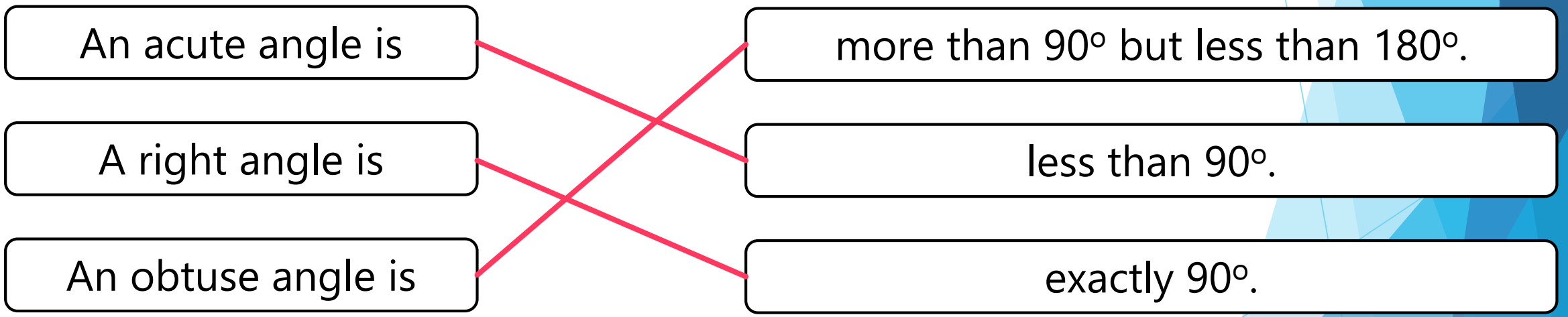
STARTER

Match the two sentence fragments to complete defining sentences for acute, right and obtuse angles.

An acute angle is	more than 90^o but less than 180^o.
A right angle is	less than 90^o.
An obtuse angle is	exactly 90^o.

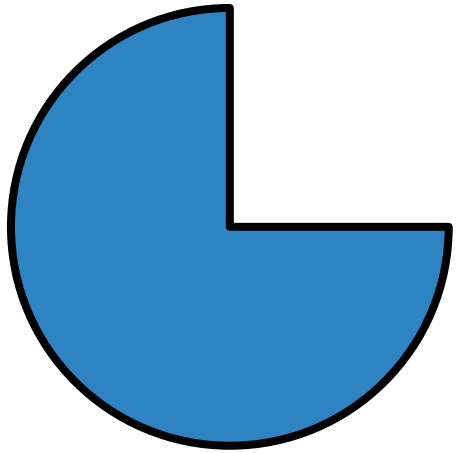
STARTER

Match the two sentence fragments to complete defining sentences for acute, right and obtuse angles.



TALKING TIME

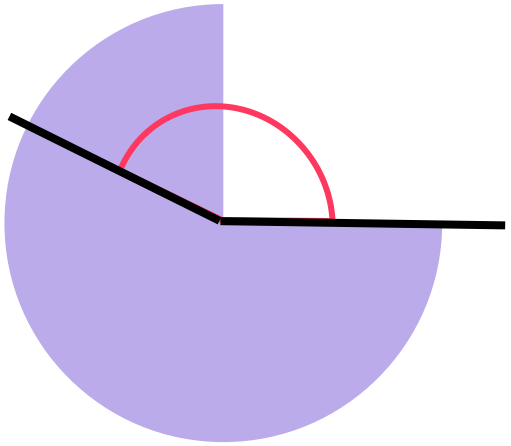
Make a right angle measurers, like the one shown below...



Find as many acute, right and obtuse angles as you can inside (and outside) of the house.

TALKING TIME

Is the angle shown below an acute, right or obtuse angle?



TALKING TIME

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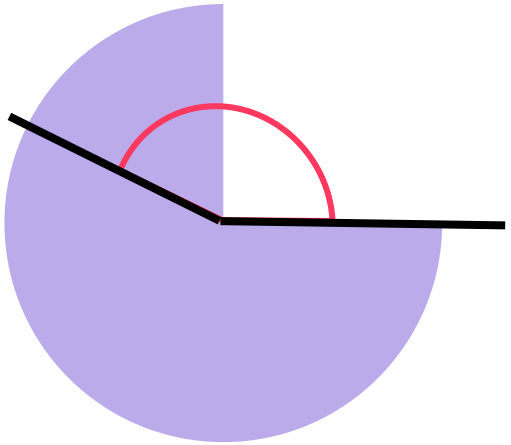

obtuse angle

TALKING TIME

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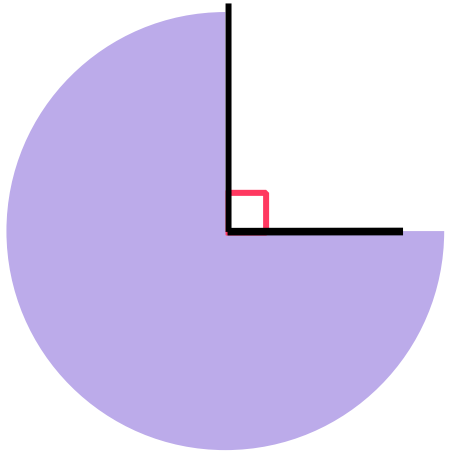

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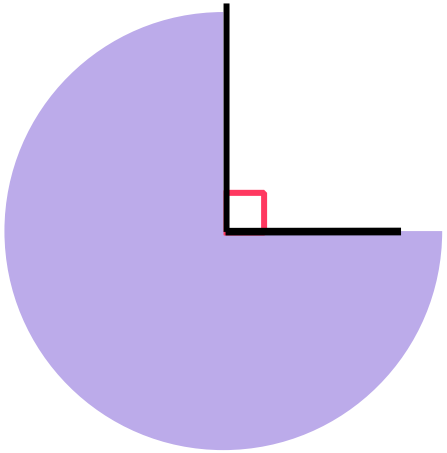
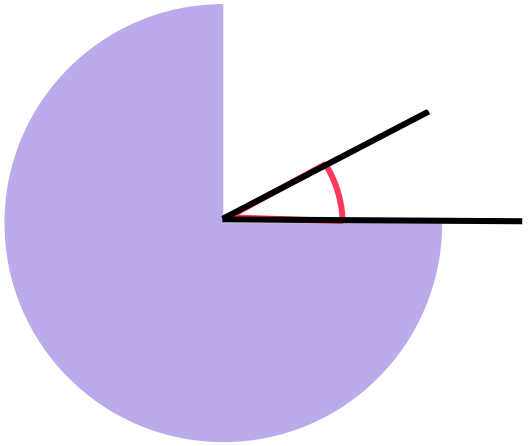


right angle

TALKING TIME

Is the angle shown below an acute, right or obtuse angle?



TALKING TIME

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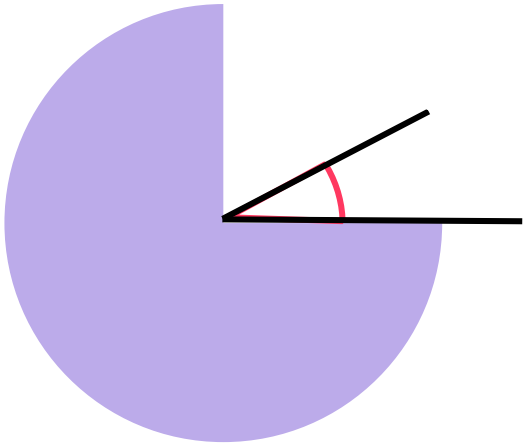
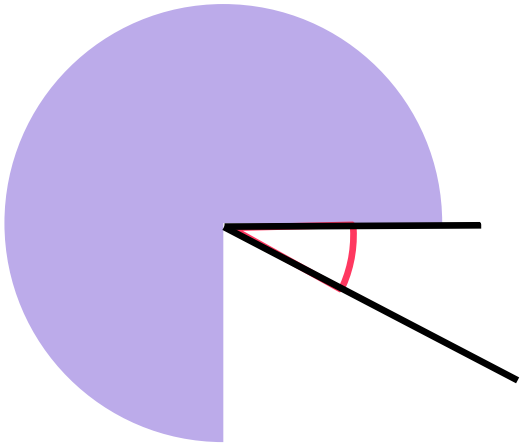


acute angle

TALKING TIME

Is the angle shown below an acute, right or obtuse angle?



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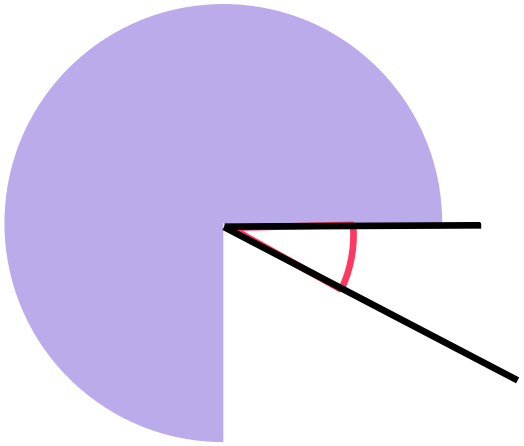

acute angle

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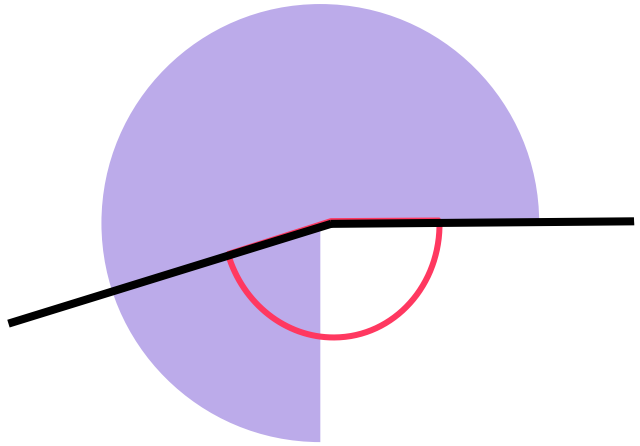

TALKING TIME

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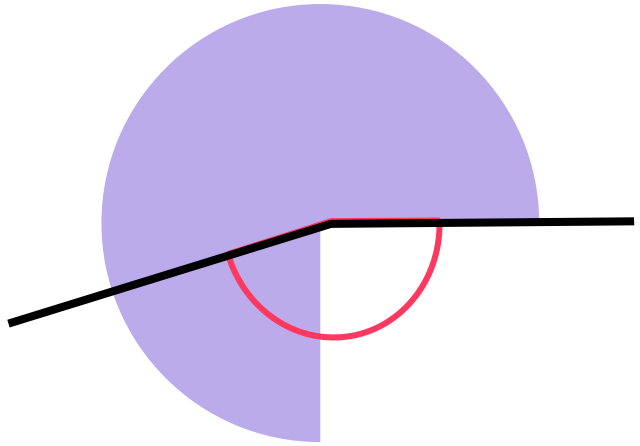

obtuse angle

TALKING TIME

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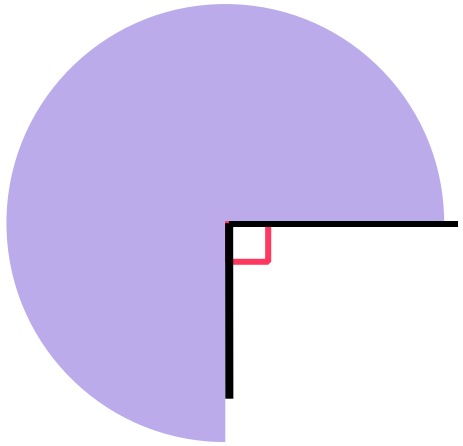

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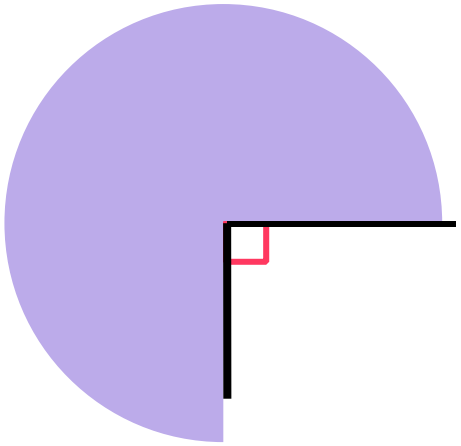
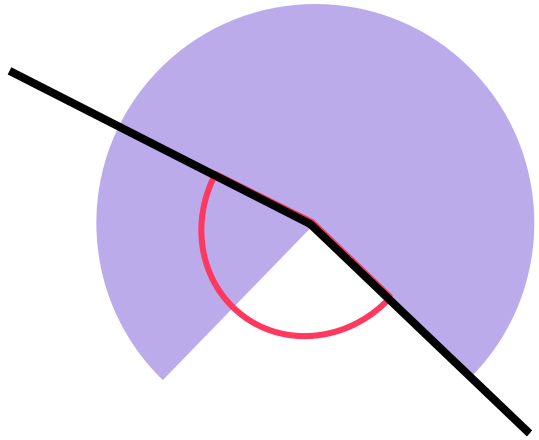


right angle

TALKING TIME

Is the angle shown below an acute, right or obtuse angle?



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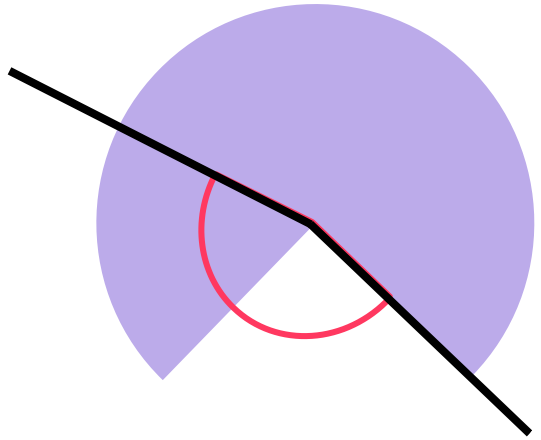

obtuse angle

TALKING TIME

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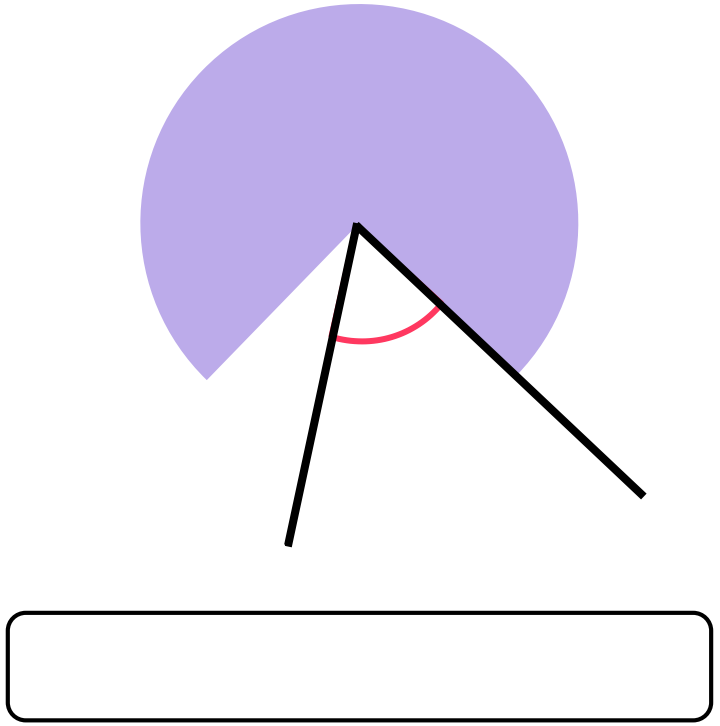

TALKING TIME

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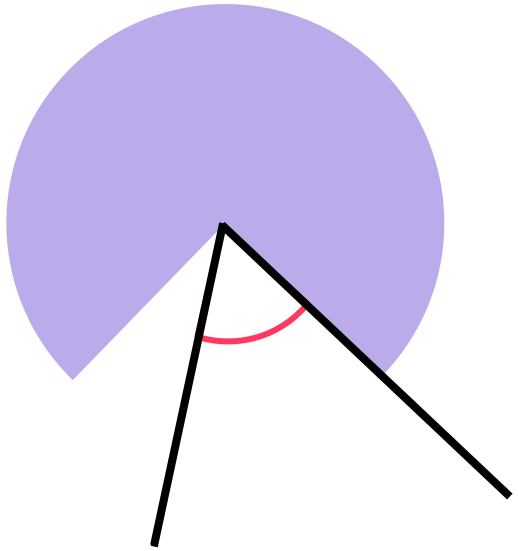
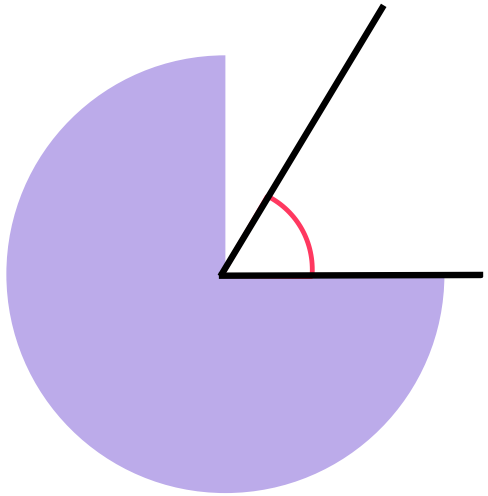
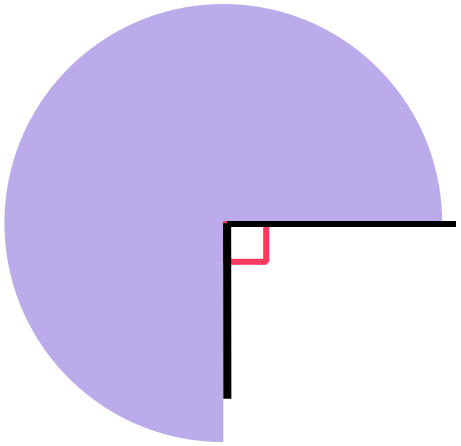


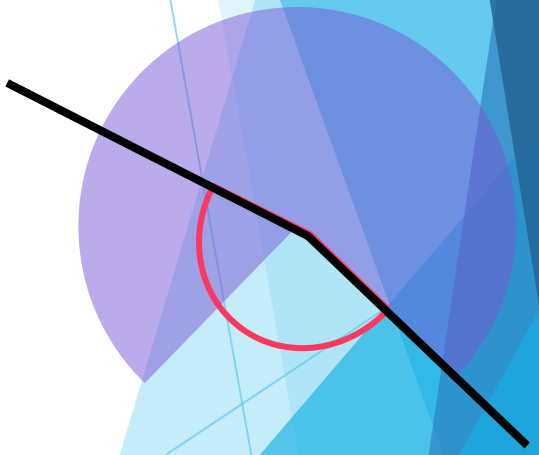
acute angle

ACTIVITY 1

Are the angles shown below acute, right or obtuse angles?







ACTIVITY 1

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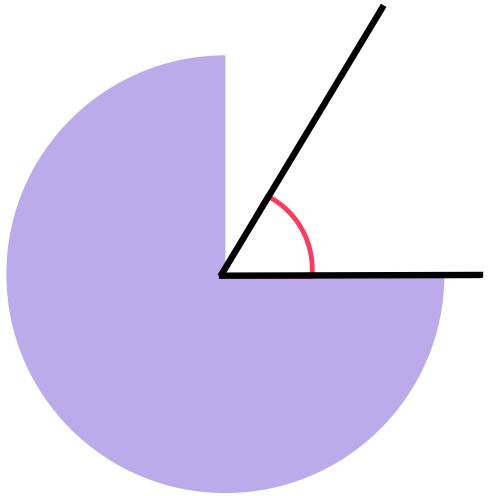
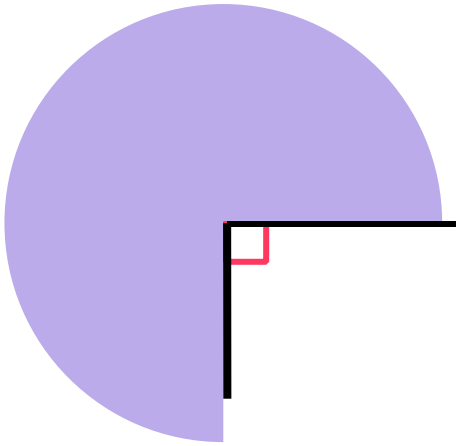
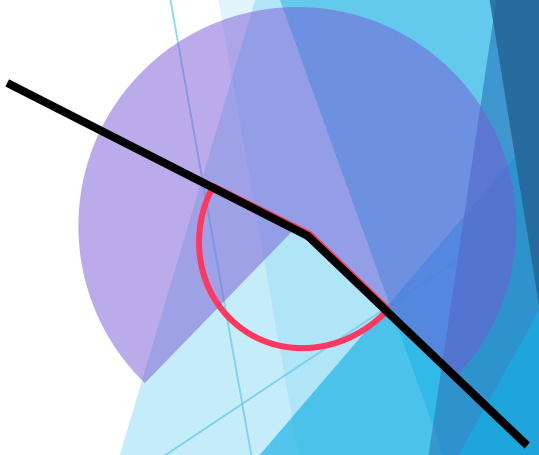






acute angle

right angle

obtuse angle

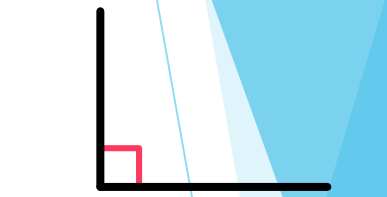
TALKING TIME

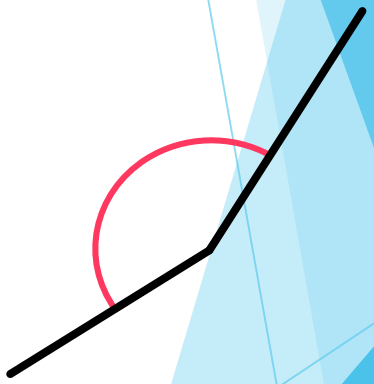
Match each label to its example angle.

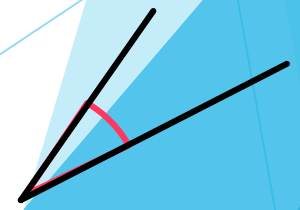
acute angle

right angle

obtuse angle







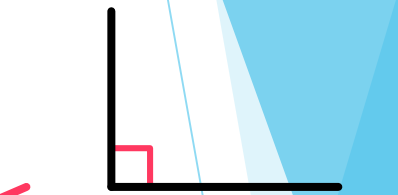
TALKING TIME

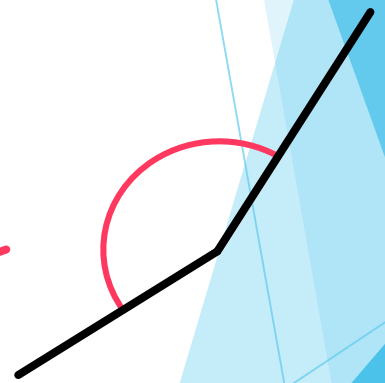
Match each label to its example angle.

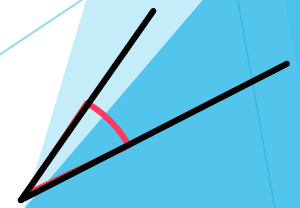
acute angle

right angle

obtuse angle







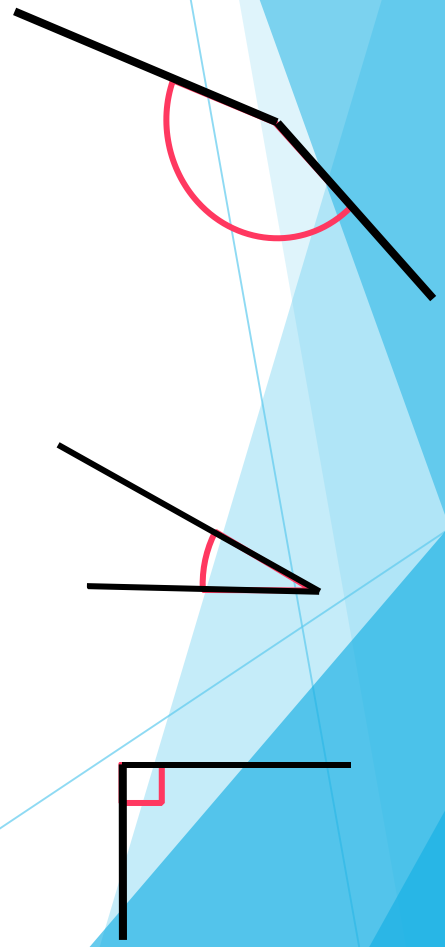
ACTIVITY 2

Match each label to its example angle.

acute angle

right angle

obtuse angle



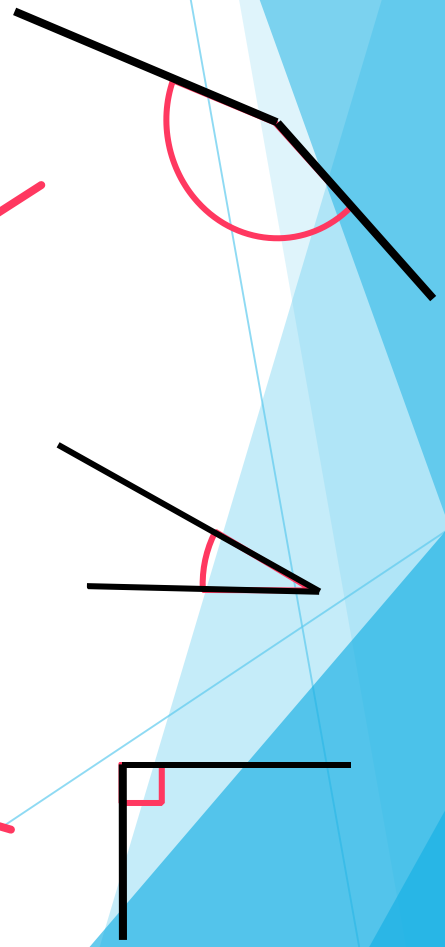
ACTIVITY 2

Match each label to its example angle.

acute angle

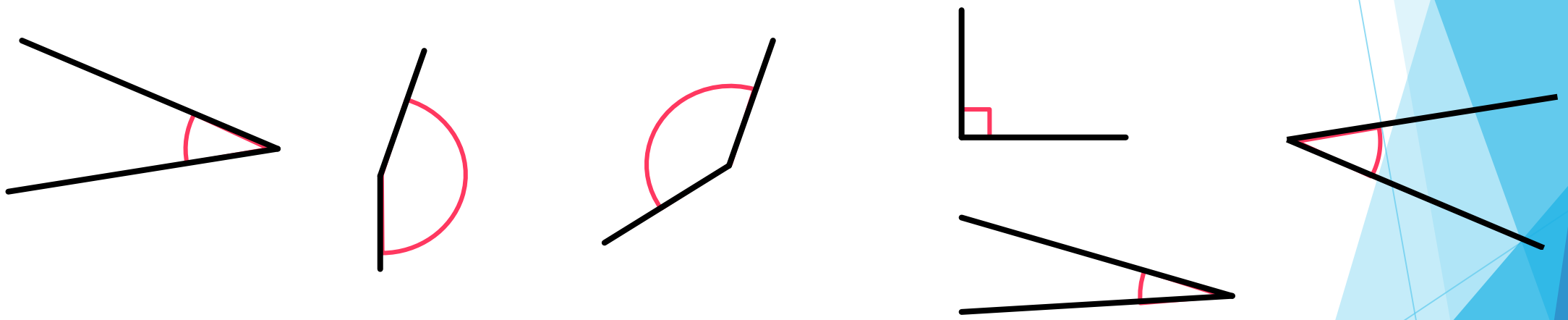
right angle

obtuse angle



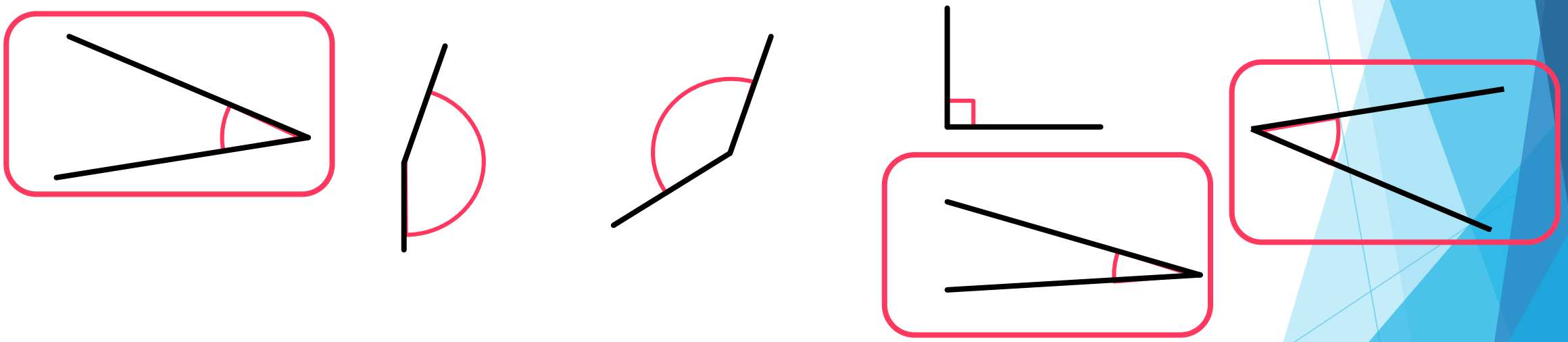
ACTIVITY 3

Circle all the acute angles.



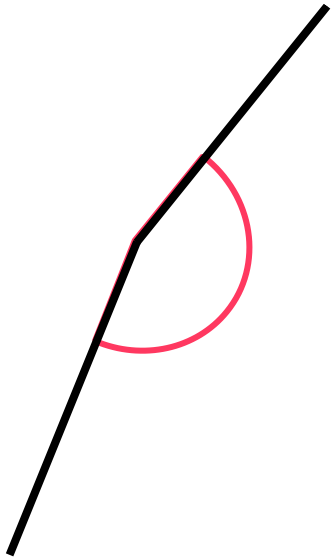
ACTIVITY 3

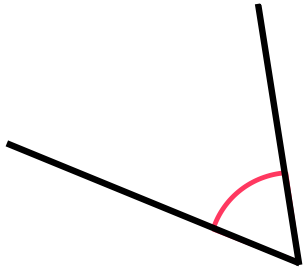
Circle all the acute angles.

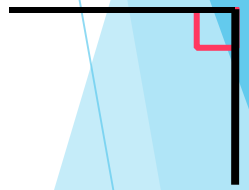


ACTIVITY 4

Are the angles shown below acute, right or obtuse angles?

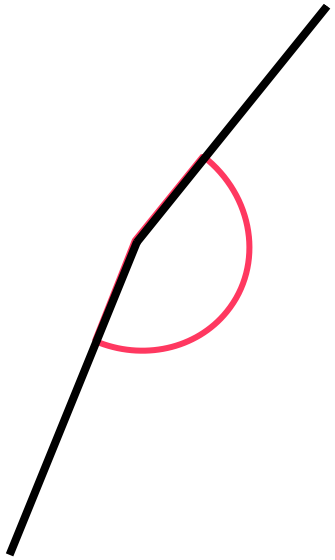


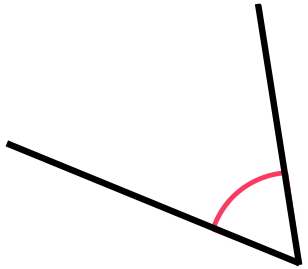


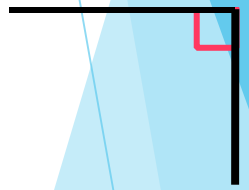


ACTIVITY 4

Are the angles shown below acute, right or obtuse angles?







obtuse angle

acute angle

right angle

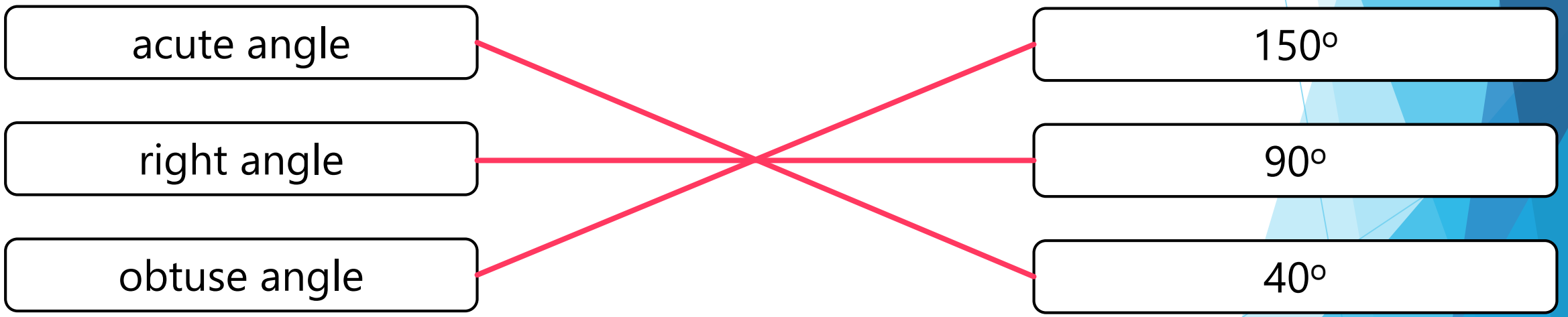
TALKING TIME

Match each angle measurement to its label.

acute angle	150^{o}
right angle	90^{o}
obtuse angle	40^{o}

TALKING TIME

Match each angle measurement to its label.



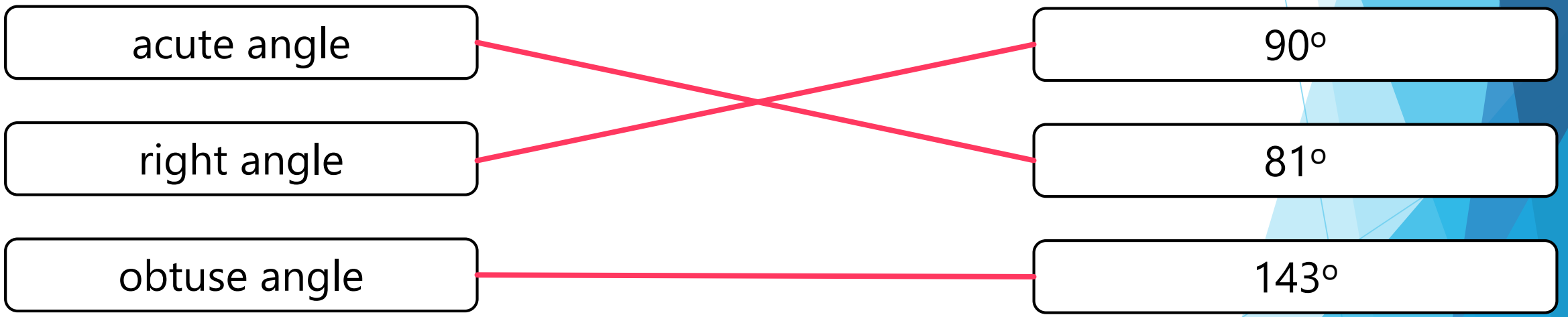
TALKING TIME

Match each angle measurement to its label.

acute angle	90^o
right angle	81^o
obtuse angle	143^o

TALKING TIME

Match each angle measurement to its label.



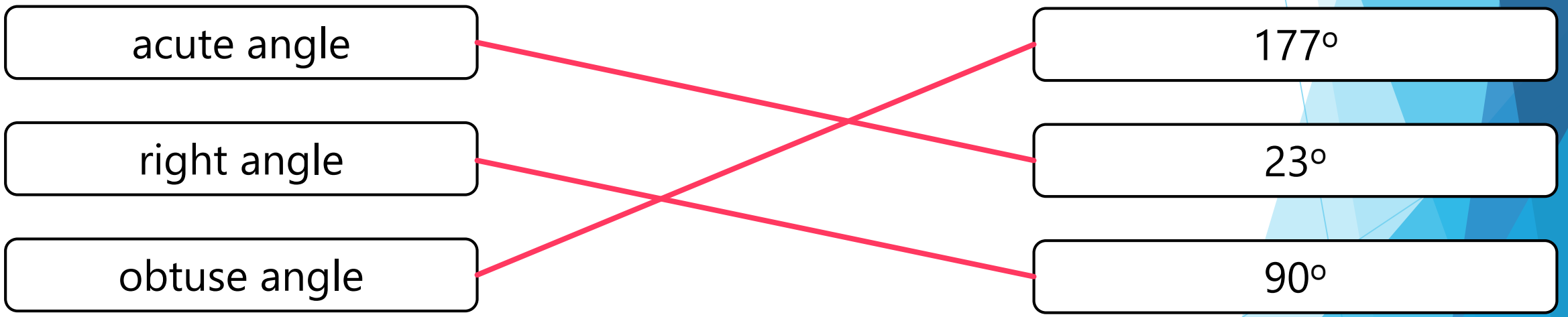
ACTIVITY 5

Match each angle measurement to its label.

acute angle	177°
right angle	23°
obtuse angle	90°

ACTIVITY 5

Match each angle measurement to its label.



ACTIVITY 6

Are the following statements always, sometimes or never true?

a) An acute angle is more than a right angle.

b) An obtuse angle is more than a right angle but less than a straight line.

c) If you make two acute angles and put them together, you make an obtuse angle.

ACTIVITY 6

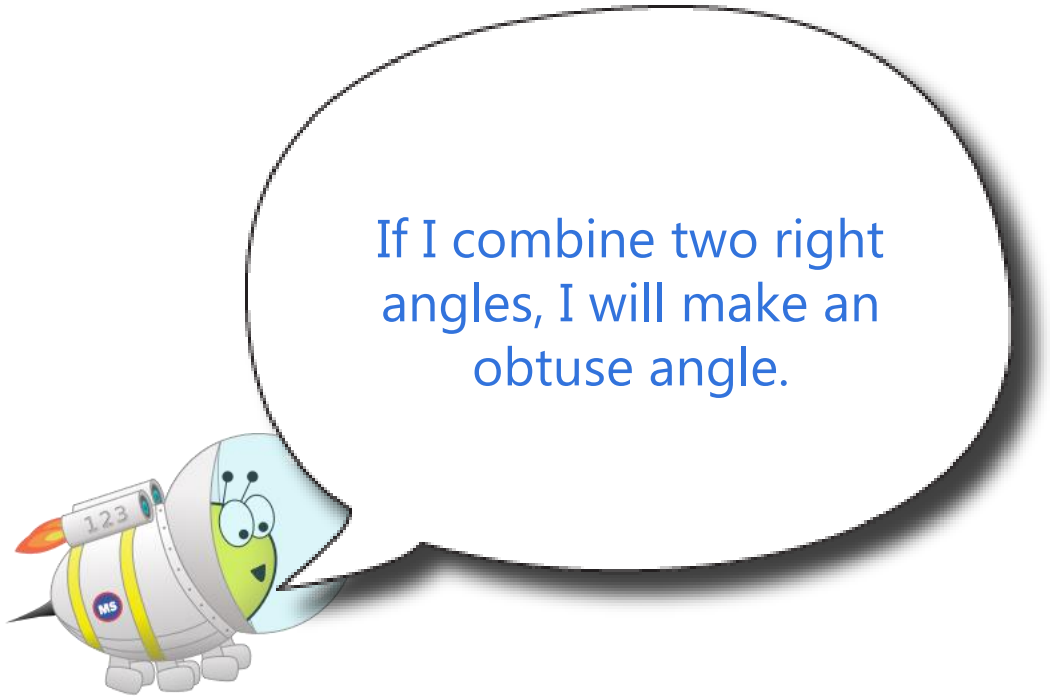
Are the following statements always, sometimes or never true?

a) An acute angle is more than a right angle.
Never true – acute angles are less than a right angle (90 degrees).

b) An obtuse angle is more than a right angle but less than a straight line.
Always true – obtuse angles are more than a right angle (90 degrees), but less than a straight line (180 degrees).

c) If you make two acute angles and put them together, you make an obtuse angle.
Sometimes true – e.g. $60^o + 70^o = 130^o$; however, $20^o + 30^o = 50^o$.

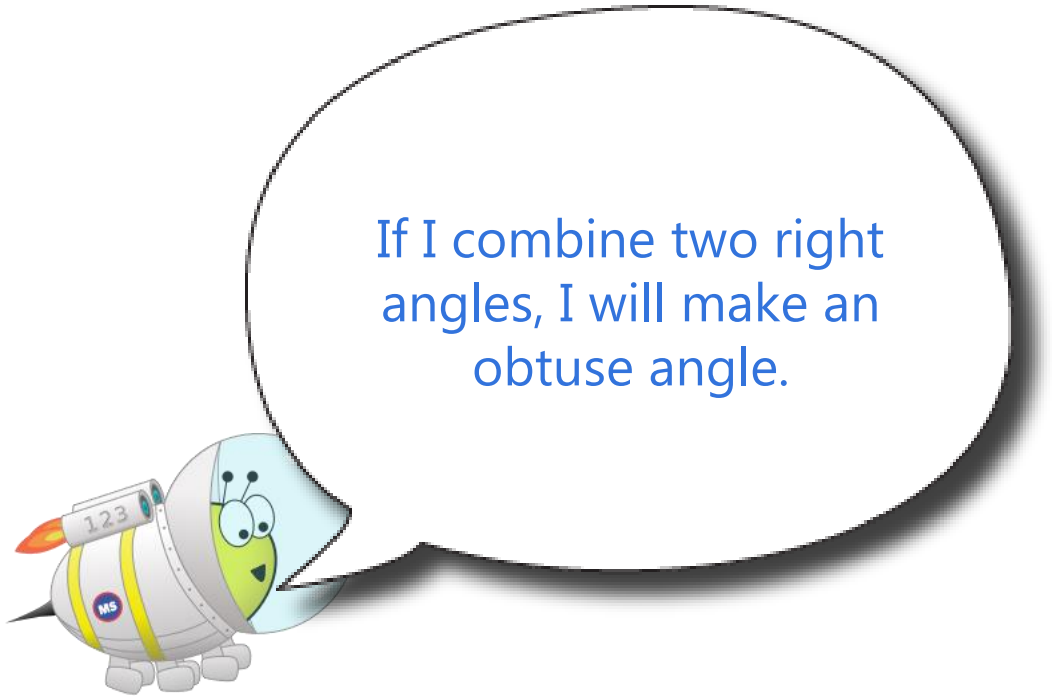
EVALUATION



Is Astrobee's statement true or false?

Explain your answer.

EVALUATION



Astrobee's statement is false. Two right angles make 180^{o} which makes a half turn or straight line which is **just** greater than an obtuse angle.