



THIRD SPACE
LEARNING

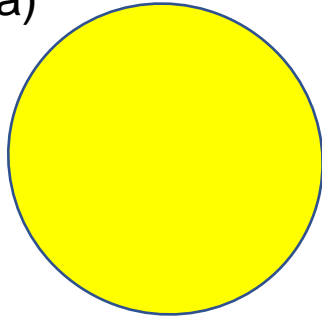
Shape

Right Angles

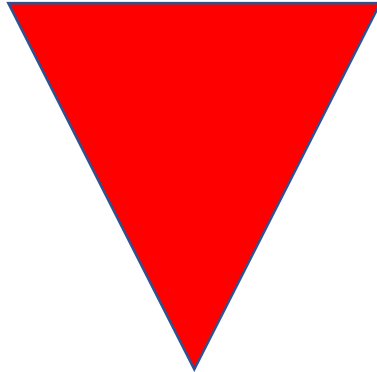
To be able to recognise that a quarter-turn is a right-angle

Starter: Which of these shapes have angles?
Which have no angles? Why?

a)



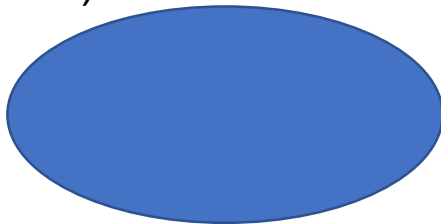
b)



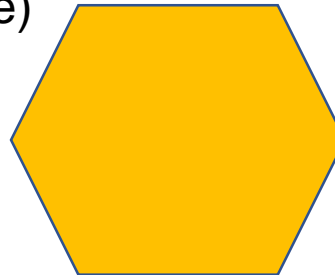
c)



d)



e)

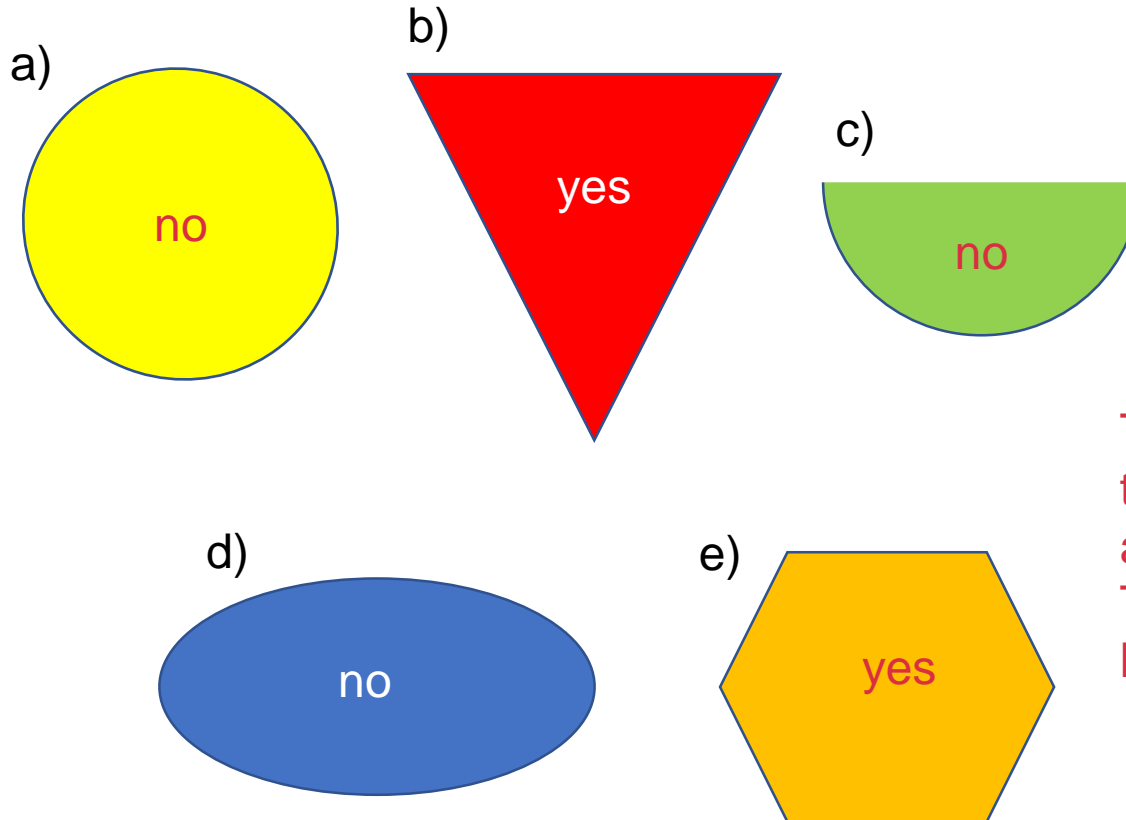


Success Criteria:

- ☐ I can recognise that a quarter-turn
- ☐ I know that a right angle is a quarter-turn
- ☐ I can use resources to find right-angles

To be able to recognise that a quarter-turn is a right-angle

Starter: Which of these shapes have angles?
Which have no angles? Why?



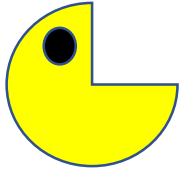
Success Criteria:

- ☐ I can recognise that a quarter-turn
- ☐ I know that a right angle is a quarter-turn
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The circle, semi-circle and the oval do not include angles.
They do not have straight lines meeting at a point.

To be able to recognise that a quarter-turn is a right-angle

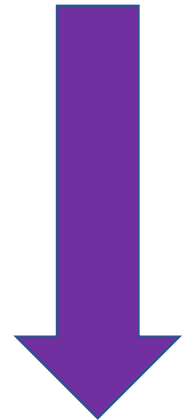
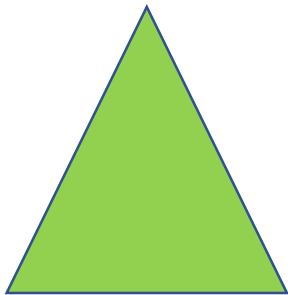
Talking time: This is the Chomper.



The Chomper only eats right-angles.

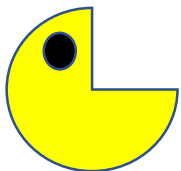
Which of these shapes will The Chomper eat?

Can you explain how you know?

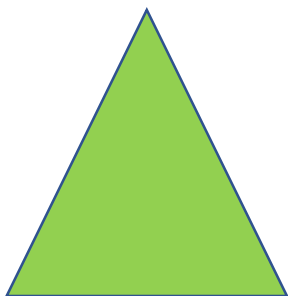


To be able to recognise that a quarter-turn is a right-angle

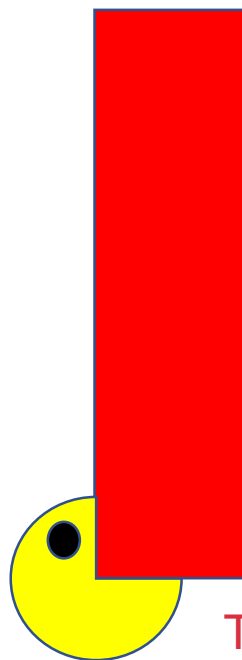
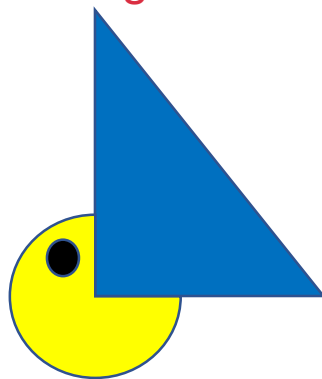
Talking time: This is the Chomper.
The Chomper only eats right-angles.
Which of these shapes will The Chomper eat?
Can you explain how you know?



no



Yes.
This is a right-angled
triangle.

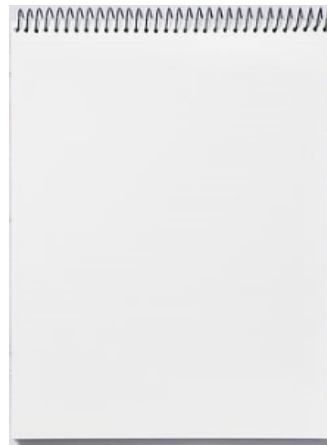
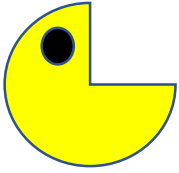


Yes.
There are four
right-angles here on
both shapes.



To be able to recognise that a quarter-turn is a right-angle

Talking time: Which of these real-life shapes will The Chomper eat?
Why?



To be able to recognise that a quarter-turn is a right-angle

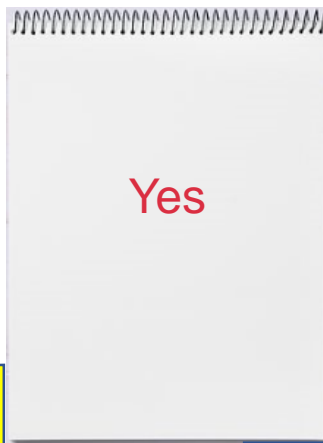
Talking time: Which of these real-life shapes will The Chomper eat?
Why?



Yes



No.
Hexagonal



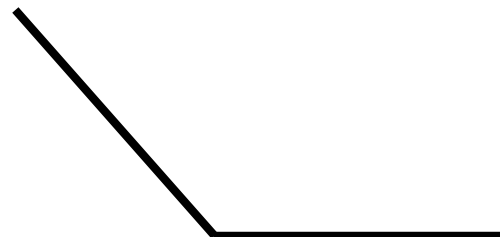
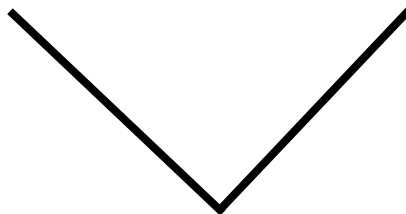
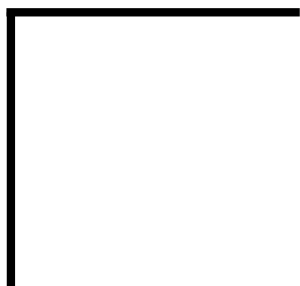
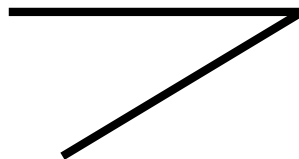
Yes



No.
Equilateral
triangle.

To be able to recognise that a quarter-turn is a right-angle

Talking time: Which of these angles will The Chomper eat?
Can you explain your thinking?

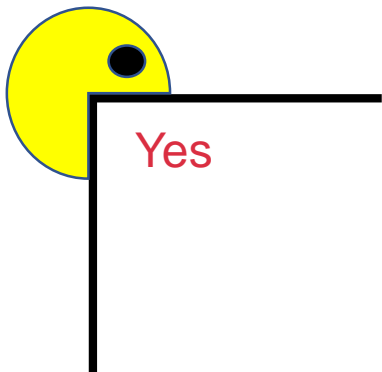


To be able to recognise that a quarter-turn is a right-angle

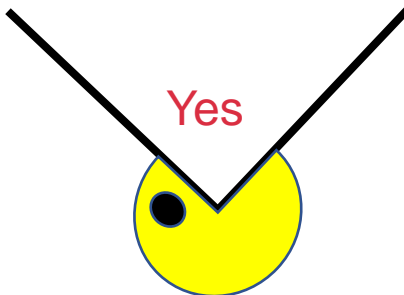
Talking time: Which of these angles will The Chomper eat?
Can you explain your thinking?



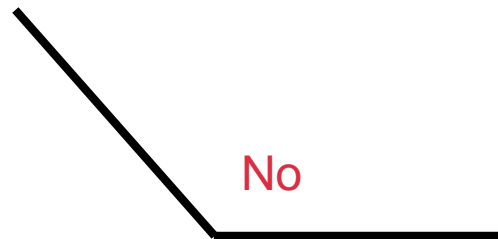
No



Yes



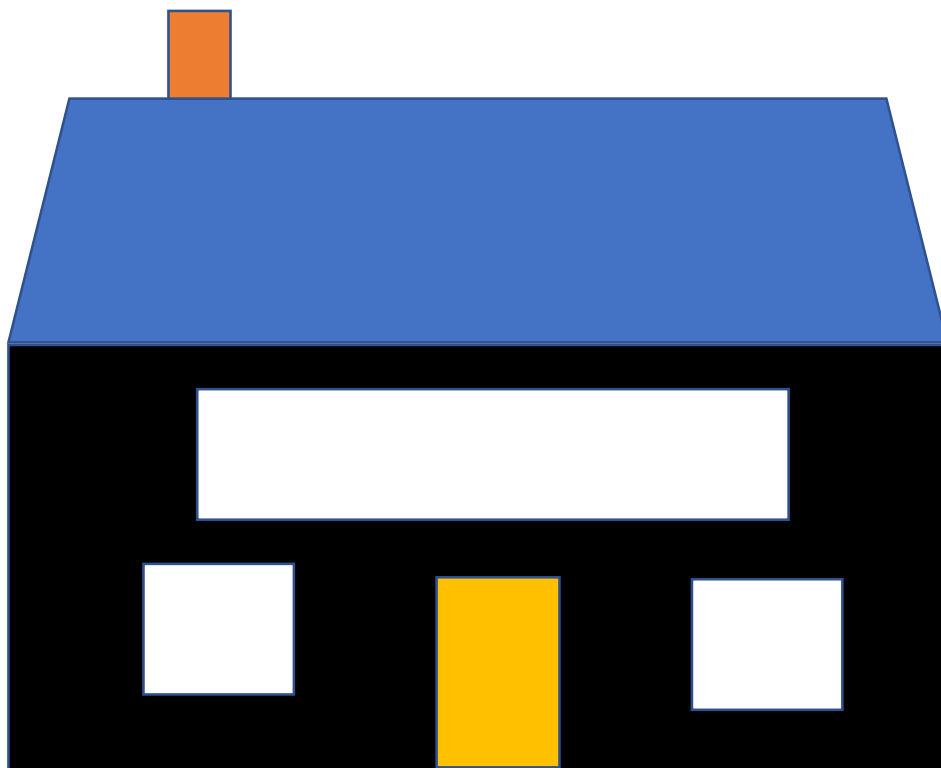
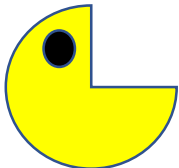
Yes



No

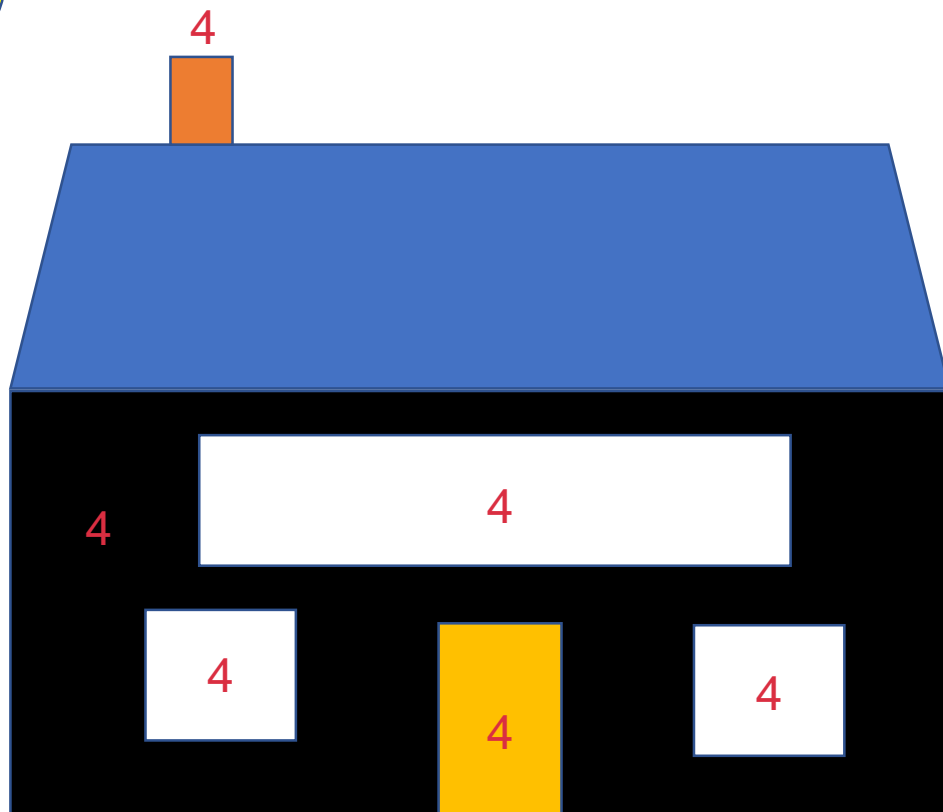
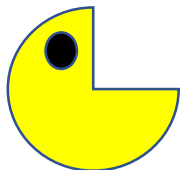
To be able to recognise that a quarter-turn is a right-angle

Activity 2: How many right-angles could The Chomper 'chomp' in this picture?



To be able to recognise that a quarter-turn is a right-angle

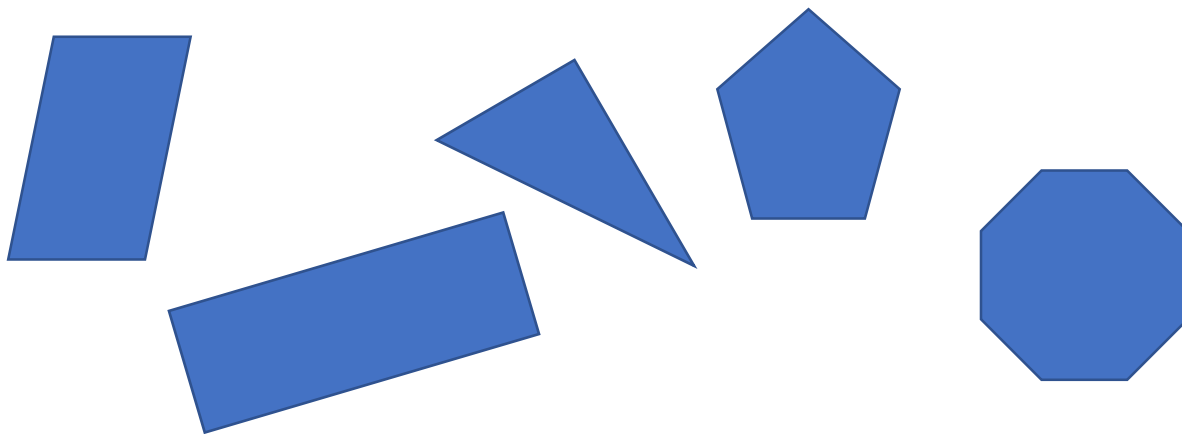
Activity 2: How many right-angles could The Chomper 'chomp' in this picture?



There are 24 right-angles
for The Chomper to
'chomp' in this picture.

To be able to recognise that a quarter-turn is a right-angle

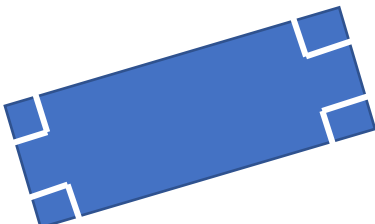
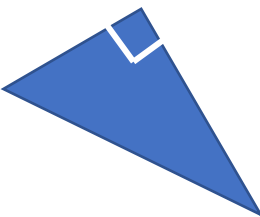


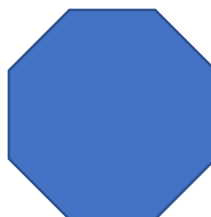
Talking time: Can you sort the shapes into the right place on the sorting diagram?



| Shapes with 1 right-angle or more | Shapes with no right-angles |
|-----------------------------------|-----------------------------|
| | |

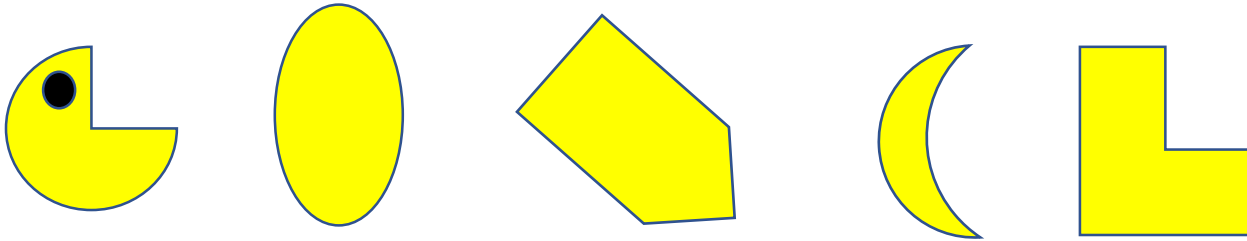
To be able to recognise that a quarter-turn is a right-angle

Talking time: Can you sort the shapes into the right place on the sorting diagram?

| Shapes with 1 right-angle or more | Shapes with no right-angles |
|--|---|
|   |    |

To be able to recognise that a quarter-turn is a right-angle

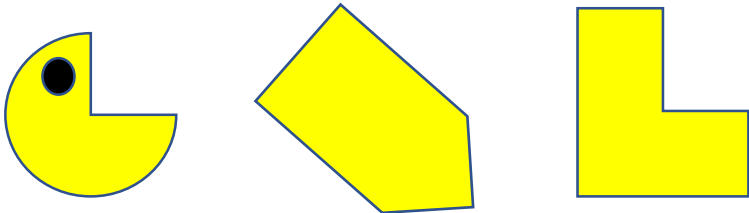
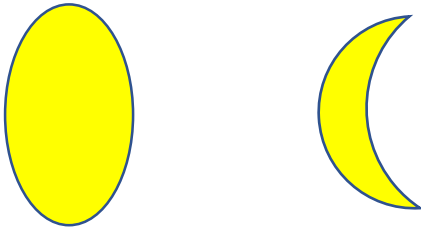
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|-----------------------------------|-----------------------------|
| | |

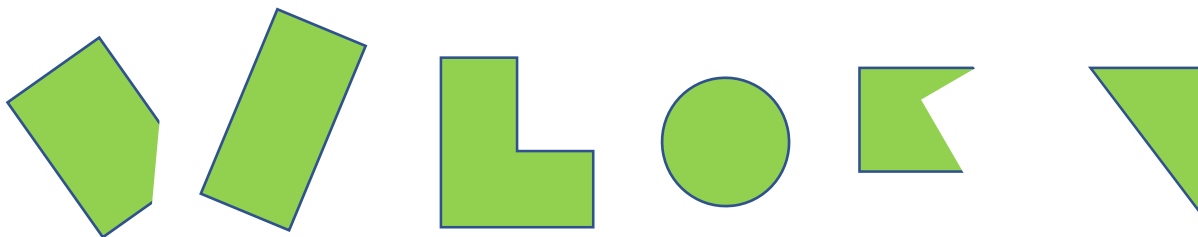
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Talking time: Can you sort these shapes into the right place on the sorting diagram?

| Shapes with 1 right-angle or more | Shapes with no right-angles |
|--|--|
|  |  |

To be able to recognise that a quarter-turn is a right-angle

Talking time: Can you put these shapes in order on the track?
Can you explain your thinking?








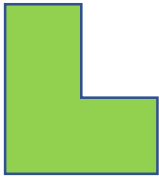
| Has no right-angles | Has 1 right-angle | Has 2 right-angles | Has 3 right-angles | Has 4 right-angles | Has more than 4 right-angles |
|---------------------|-------------------|--------------------|--------------------|--------------------|------------------------------|
| | | | | | |

To be able to recognise that a quarter-turn is a right-angle

Talking time: Can you put these shapes in order on the track?
Can you explain your thinking?

Extension:

Is it possible to have
any triangle with two
right-angles?
Why / why not?

| Has no right-angles | Has 1 right-angle | Has 2 right-angles | Has 3 right-angles | Has 4 right-angles | Has more than 4 right-angles |
|---|---|---|---|---|---|
|  |  |  |  |  |  |

To be able to recognise that a quarter-turn is a right-angle

Activity 3: Which of these capital letters have right-angles?
Which ones do not?
Can you show where the right-angles would be?

S E H A W L

To be able to recognise that a quarter-turn is a right-angle

Activity 3: Which of these capital letters have right-angles?
Which ones do not?
Can you show where the right-angles would be?

S

E

H

A

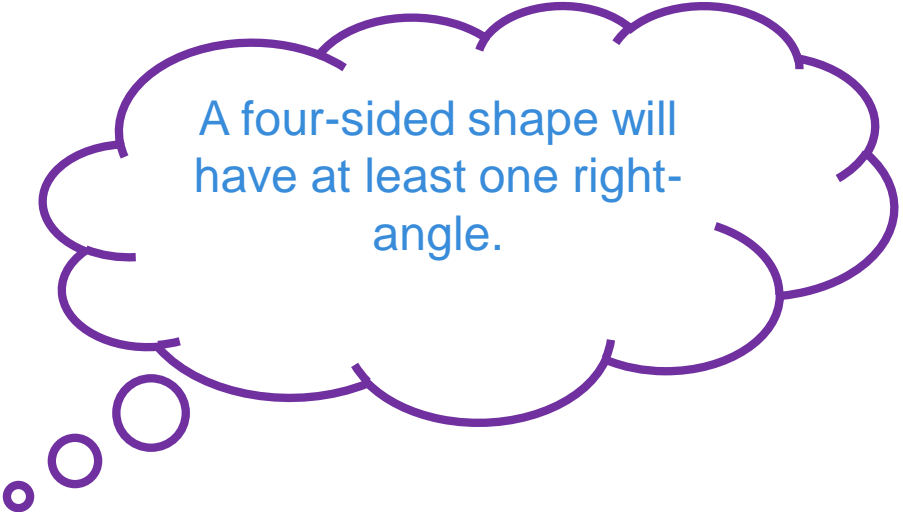
W

L

To be able to recognise that a quarter-turn is a right-angle

Evaluation:

ALWAYS, SOMETIMES, NEVER



A four-sided shape will
have at least one right-
angle.

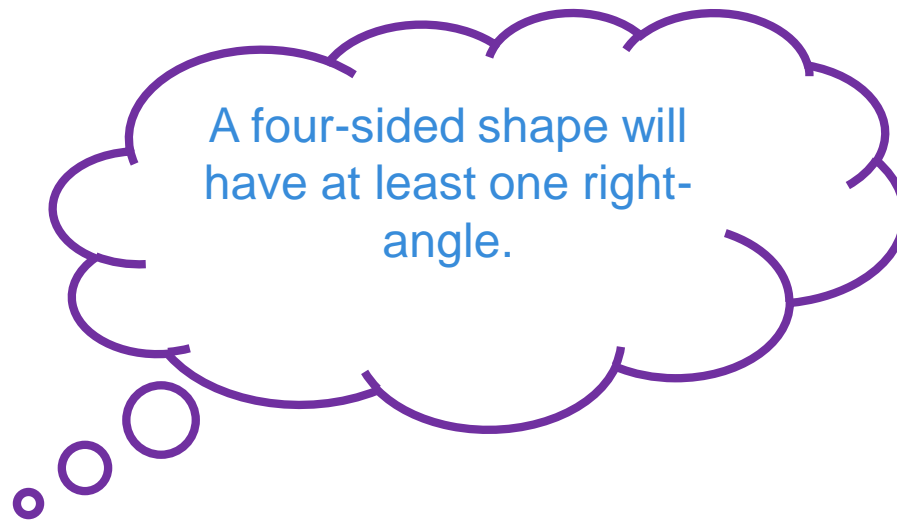
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Evaluation:

ALWAYS, SOMETIMES, NEVER



Success Criteria:

- ☐ I can recognise that a quarter-turn
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This is sometimes true. Squares and rectangles do have four right-angles. However, a rhombus, a parallelogram and a kite can be drawn without any right-angles.

