14.7.2021

L.O. to identify and describe right angles in 2D shapes.

Success Criteria:

- I understand that angles are formed where two straight lines meet at a point.
- I can describe angles as the measure of the turn between the two lines.
- I can identify right angles in 2D shapes, representing the angle using a small square.

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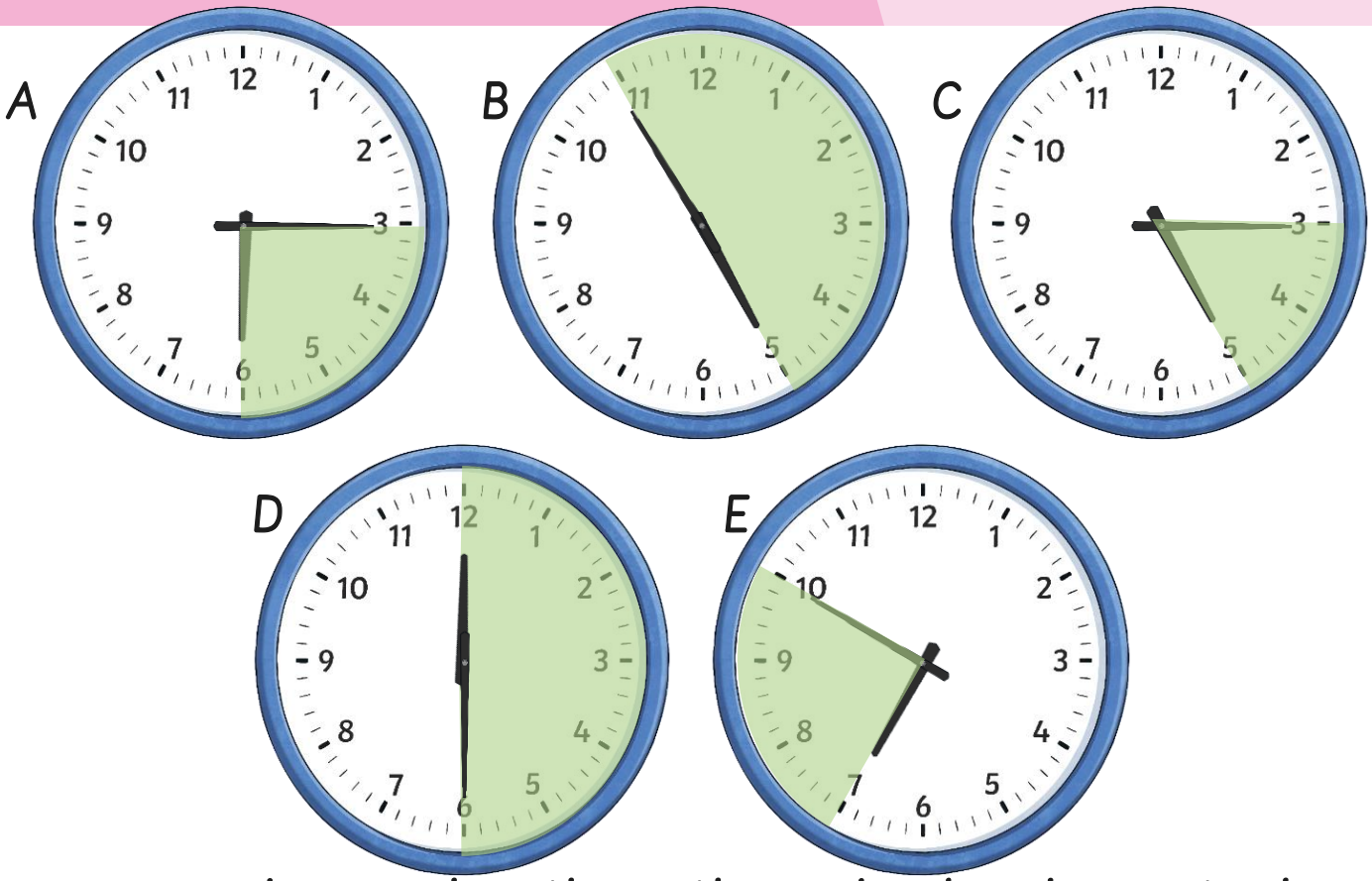
Which clocks show a quarter turn?

A and E



Can you explain why the other clocks do not show quarter turns?

B and D show a half turn which is two quarter turns.
C shows a turn smaller than a quarter turn.

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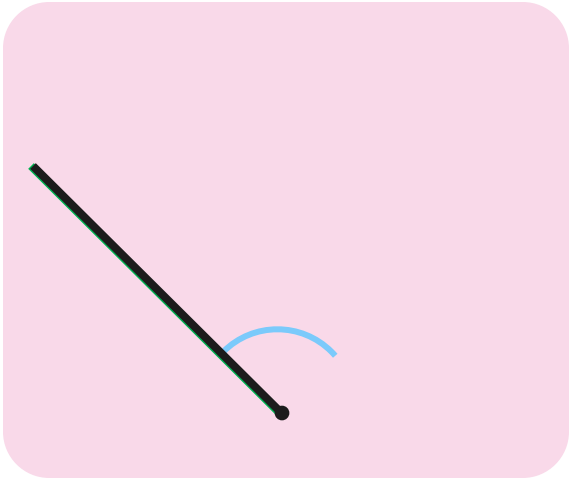
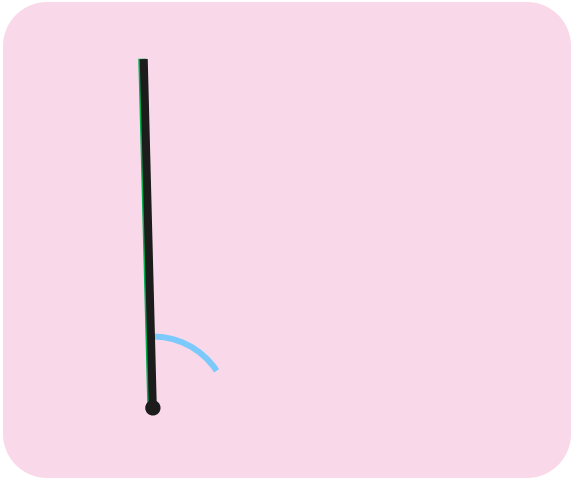
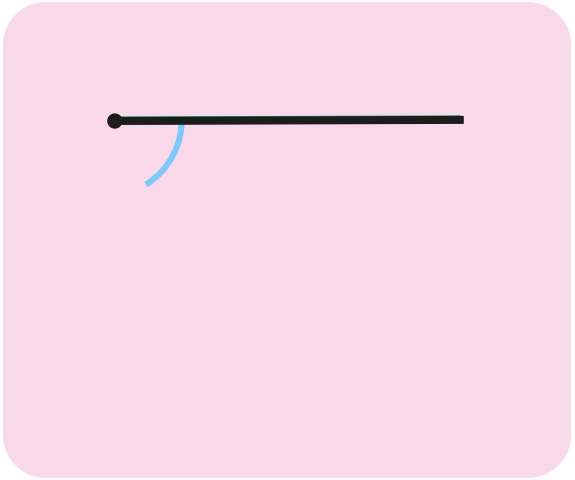
What Is an Angle?

We see angles when two straight lines meet at a point.
An angle is the measure of the turn between two lines.







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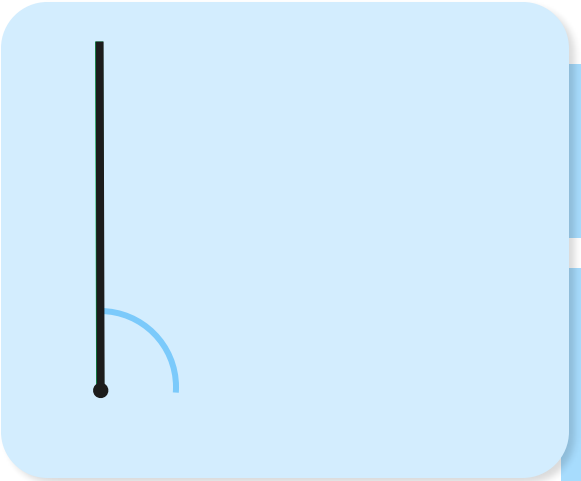
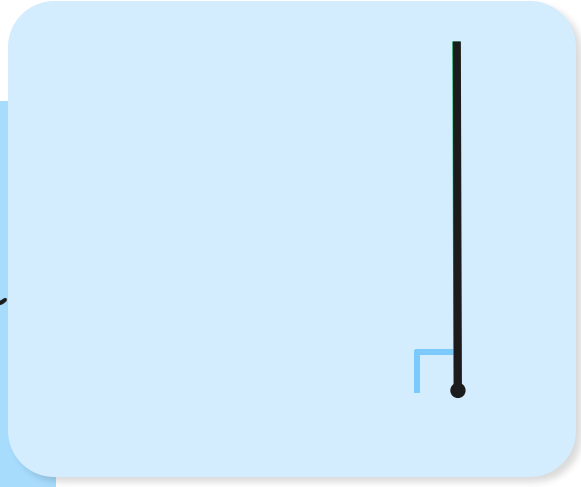
What Is an Angle?



Here we can see the angle made in a quarter turn.

The measure of the turn in a quarter turn is called a **right angle.**

Instead 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 an 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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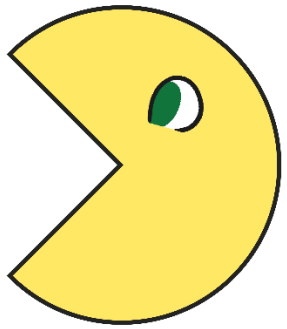
Right angles in 2D shapes

Let's investigate which 2D shapes have right angles.



We can use a right-angle finder to help us to check which of the angles are right angles.

The rectangle has 4 right angles.

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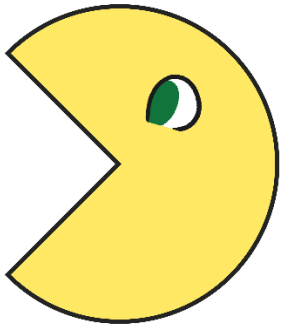
Right angles in 2D shapes

Let's investigate which 2D shapes have right angles.



We can use a right-angle finder to help us to check which of the angles are right angles.

The triangle has 1 right angle. It's called a right-angled triangle.

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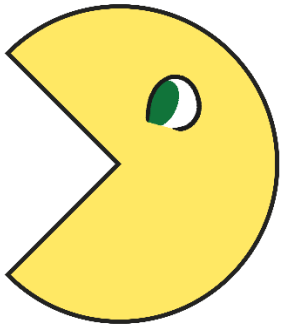
Right angles in 2D shapes

Let's investigate which 2D shapes have right angles.



We can use a right-angle finder to help us to check which of the angles are right angles.

The rhombus has no right angles.

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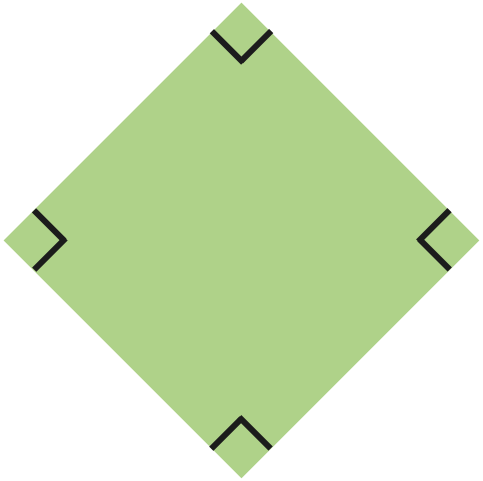
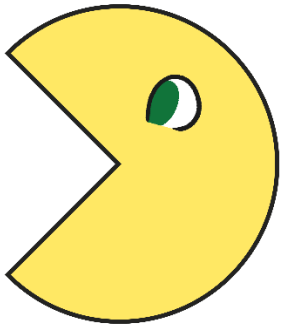
Right angles in 2D shapes

Let's investigate which 2D shapes have right angles.





We can use a right-angle finder to help us to check which of the angles are right angles.

The square has 4 right angles.

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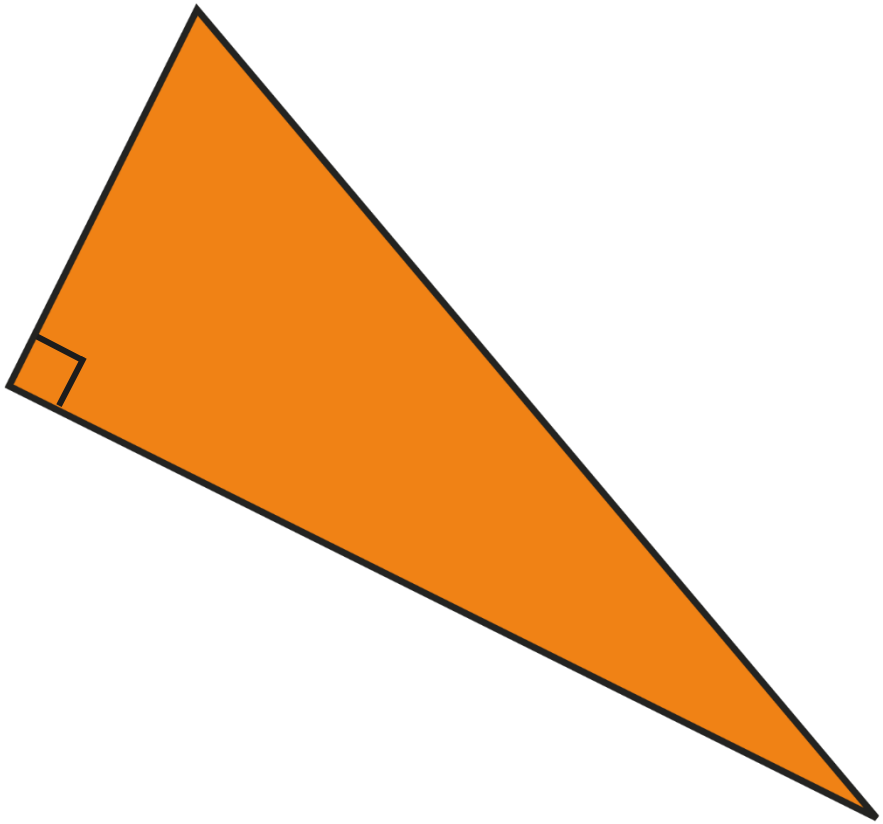
Prove It

Does this 2D shape have 3 right angles?



No, this shape has one right angle.

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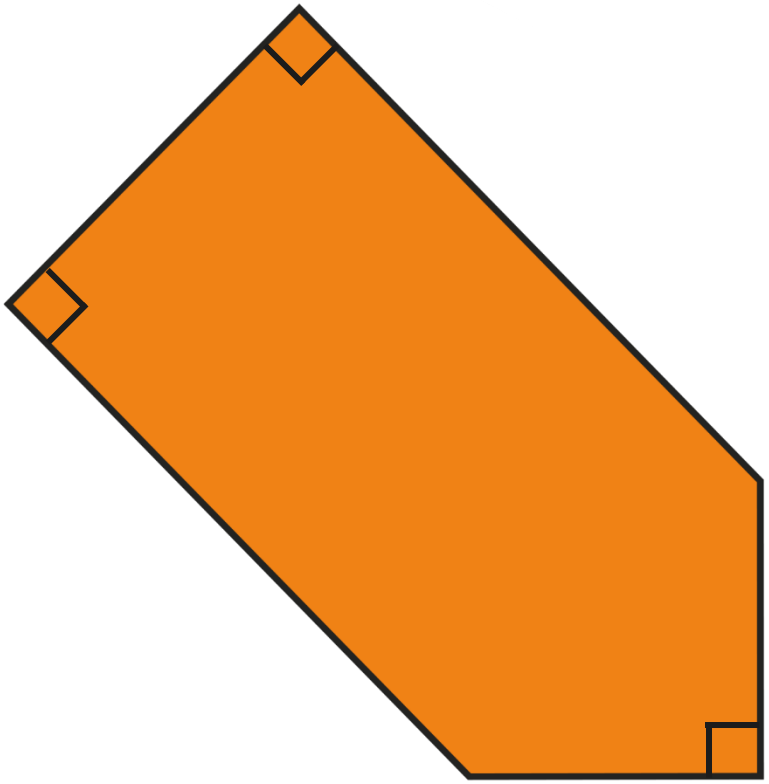
Prove It

Does this 2D shape have 3 right angles?



Yes

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Prove It

Does this 2D shape have 4 right angles?

No. As this shape has curved corners/vertices, it has no right angles.

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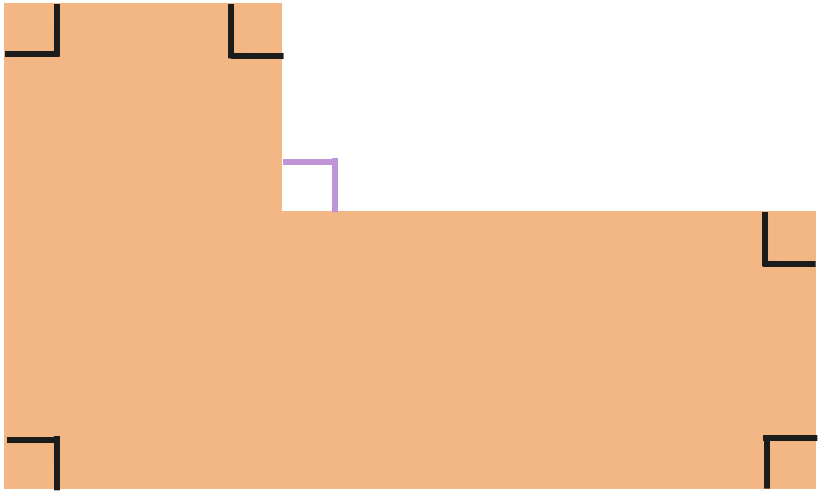
Right Angles in Shapes Challenge

How many right angles are in this shape?
Discuss with your partner. Do you agree?



There are 5 right angles inside the shape.

Did you also spot the right angle created on the outside of the shape?

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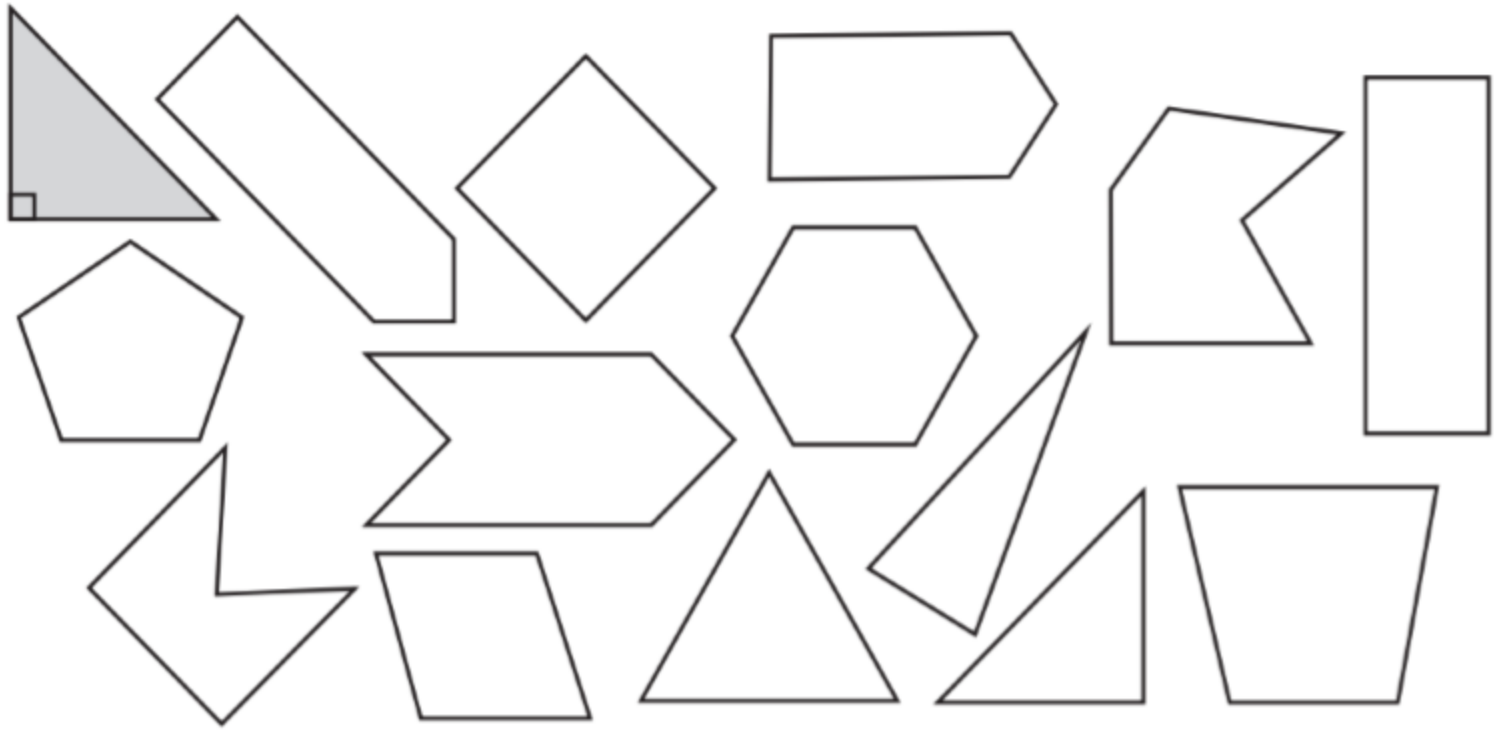
Task:

L.O. identify right angles in 2D shapes 14.7.2021

Find right angles inside the shapes below using your right angle tester to help you.

Draw a square to show where you find a right angle. One has been done for you



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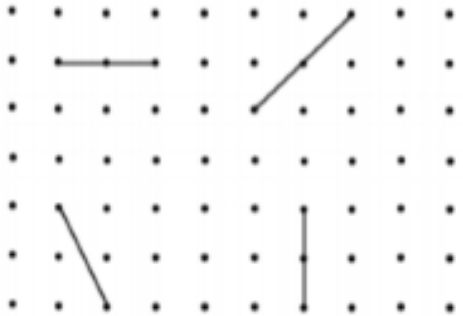
Next Step:

Draw a line along the dots to make a right-angle with each of these lines:



How many right angles can you see in this image?

Use your right angle tester to help you solve the problems!

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Task 2:

Using your right angle tester, move around the classroom and identify as many right angles as you can!

Record the object on a post it note and write how many right angles the object has next to it.

maths book = 4 right angles

door = 4 right angles

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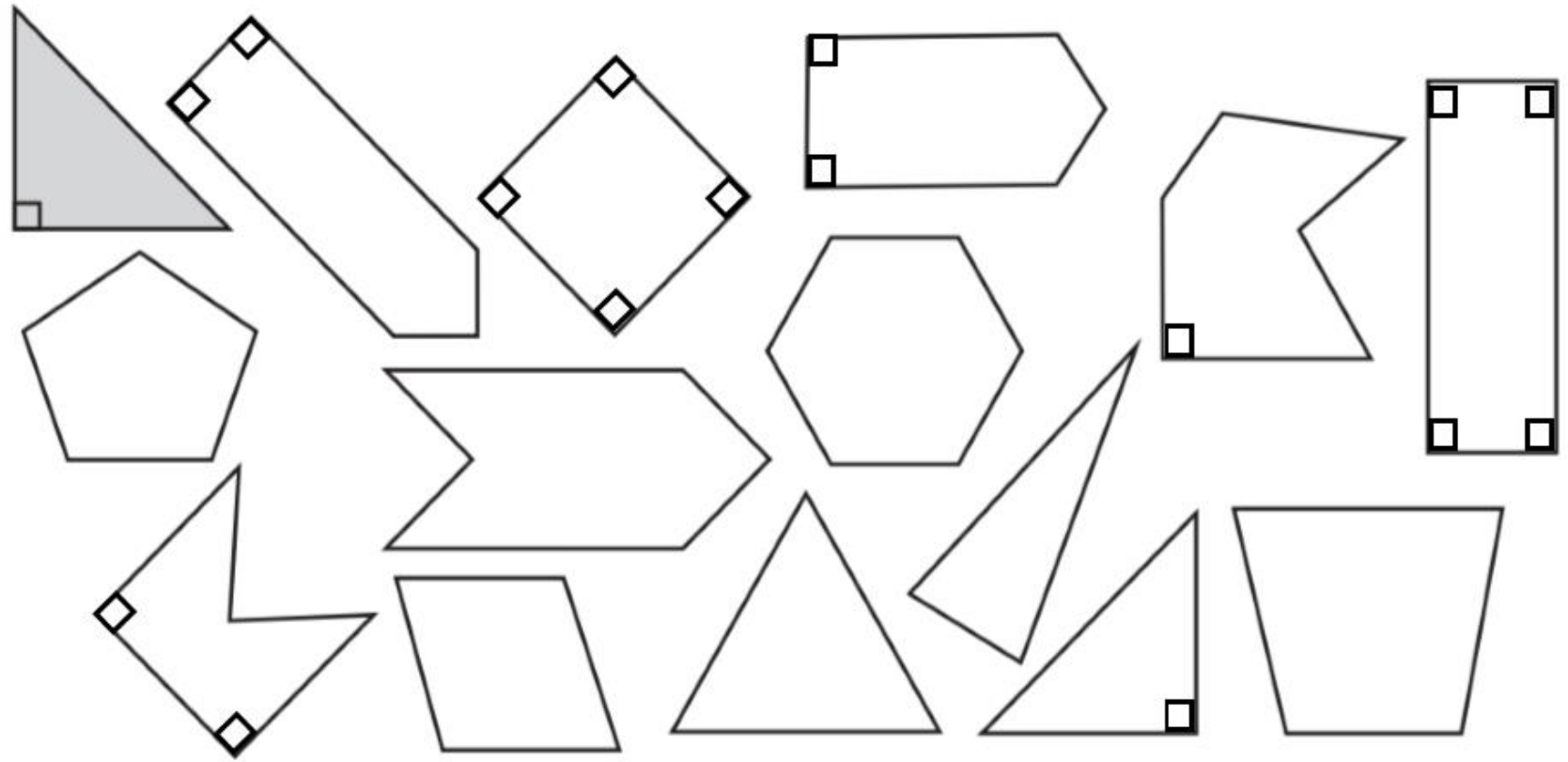
Answers:



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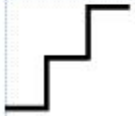
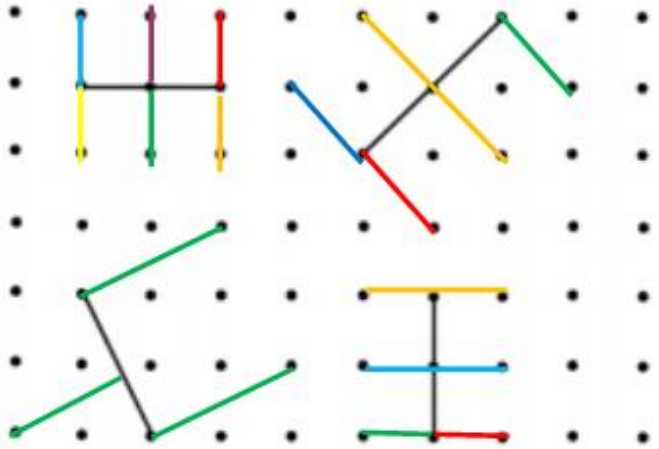
Answers:



Draw a line along the dots to make a right-angle with each of these lines:



How many right angles can you see in this image?

There are 34 right angles.

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