

Year 3

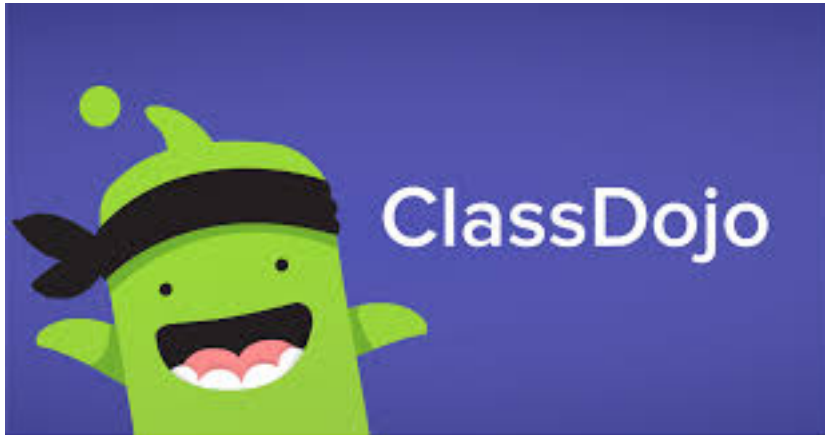
Maths Lesson

3.02.21

Home Learning Powerpoint – If you have any problems, just send us a Dojo message.

On this maths powerpoint:

- 1 warm up activity
- Answers from yesterday
- 1 maths lesson



Remember – you can get Dojos for posting pictures of your work on Class Dojo!



Warm Up Activity 3.



Answers on
the next slide
so no
peeking!

Continue these number sequences.
Remember to for the rule. Does it count up or down?

Easier

1. 3, 5, 7, _____, _____, _____, _____
2. 4, _____, 12, _____, 20, _____, _____
3. 5, 10, _____, _____, _____, _____, _____
4. 100, 200, 300, _____, _____, _____, _____
5. 50, 100, 150, _____, _____, _____, _____
6. 900, 800, _____, _____, _____, _____, _____
7. 60, _____, 40, _____, 20, _____, _____
8. 100, 90, _____, _____, _____, _____, 50
9. 20, 40, _____, _____, _____, _____, _____
10. 55, 50, 45, _____, _____, _____, _____

Harder

1. 900, 800, _____, _____, _____, _____, _____
2. 60, _____, 40, _____, 20, _____, _____
3. 100, 90, _____, _____, _____, _____, 50
4. 20, 40, _____, _____, _____, _____, _____
5. 55, 50, 45, _____, _____, _____, _____
6. 9, 18, _____, _____, _____, _____, _____
7. 99, 96, 93, _____, _____, _____, _____
8. 0.1, 0.2, 0.3, _____, _____, _____, _____
9. _____, 50, 75, _____, _____, _____, _____
10. 11, 22, 33, _____, _____, _____, _____



Warm Up Activity 3

Answers



Continue these number sequences.

Remember to for the rule. Does it count up or down?

Easier

1. 3, 5, 7, 9, 11, 13, 15
2. 4, 8, 12, 16, 20, 24, 28
3. 5, 10, 15, 20, 25, 30
4. 100, 200, 300, 400, 500, 600
5. 50, 100, 150, 200, 250, 300
6. 900, 800, 700, 600, 500
7. 60, 50, 40, 30, 20, 10
8. 100, 90, 80, 70, 60, 50
9. 20, 40, 60, 80, 100, 120
10. 55, 50, 45, 40, 35, 30, 25

Harder

1. 900, 800, 700, 600, 500
2. 60, 50, 40, 30, 20, 10
3. 100, 90, 80, 70, 60, 50
4. 20, 40, 60, 80, 100, 120
5. 55, 50, 45, 40, 35, 30, 25
6. 9, 18, 27, 36, 45, 54
7. 99, 96, 93, 90, 87, 84
8. 0.1, 0.2, 0.3, 0.4, 0.5, 0.6
9. 25, 50, 75, 100, 125, 150
10. 11, 22, 33, 44, 55, 66, 77

3.02.21

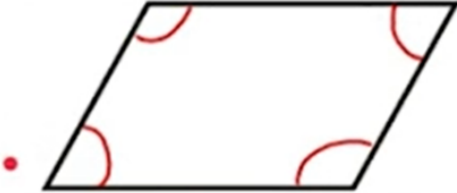
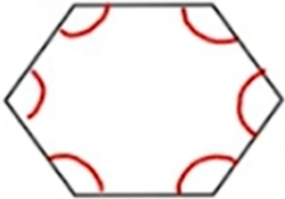
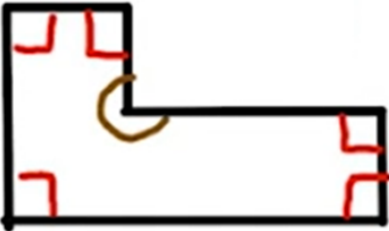

Write today's
date and
objective in your
home learning
book.

Can I recognise right angles?

Remember to be
proud of your work
and use your best
presentation

Take a look at how you got on with your work yesterday.

Part 1

	Shape	Number of sides	Number of angles
A)		4	4
B)		6	6
C)		6	6
D)		10	10



Part 2

B) Look at the table you have just completed.

What do you notice? Are there any patterns? Explain.

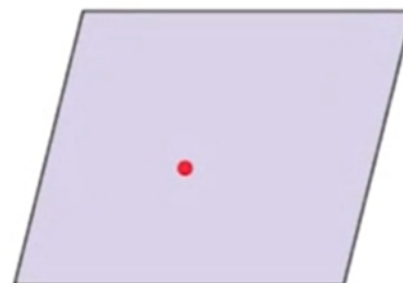
The number of sides on a 2-D shape will be equal to the number of angles inside the 2-D shape. For example, a square has 4 sides and 4 angles inside.

C) Do you agree or disagree with Danielle's statement?

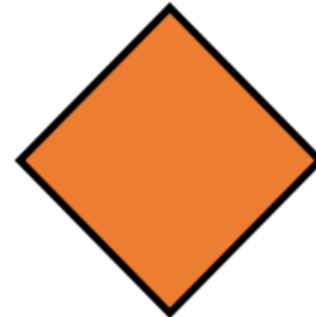
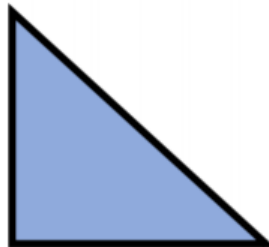
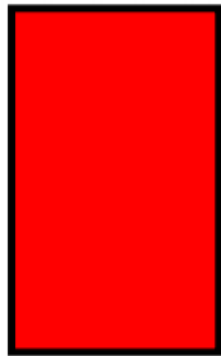


My shape has 4 angles inside.
It must be a square.

Disagree



All of these shapes have right angles



We will be able to answer this question by the end of the lesson

For today's Maths lesson , I would like you to use this video from the Oak Academy website. The teacher will take you through a lesson on identifying right angles. Click on the link below.

<https://classroom.thenational.academy/lessons/to-recognise-right-angles-6ww34d?step=2&activity=video>

You will need to get the equipment shown here



I have also copied a few of the slides to help you on your way.

Be prepared!

In this lesson, we will be building on your knowledge of angles from yesterday to explore right-angles. We will be looking at these on their own and within different shapes and you will have a chance to find some of your own.

Today, you will need:

- Pencil
- Paper or exercise book
- Right-angle checker (a corner of a piece of paper)



Pause the video now and get your equipment ready.

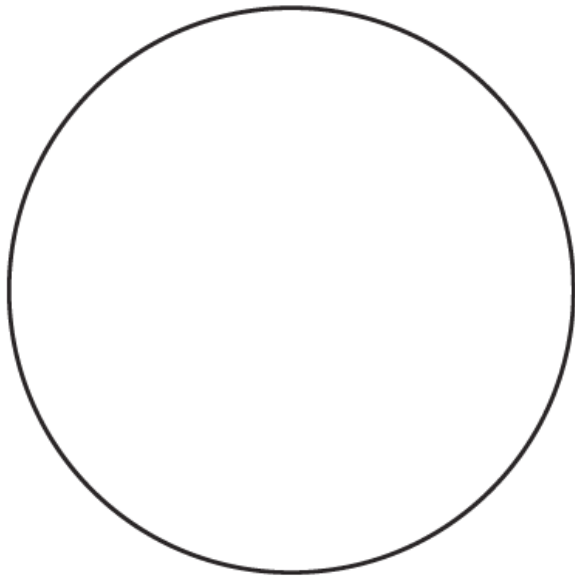


Zoom out (Ctrl+Minus)

Make a Right Angle Checker

Instructions

1. Cut out the circle.
2. Fold it in half.
3. Now, fold it in half again.
4. You can now check for right angles!



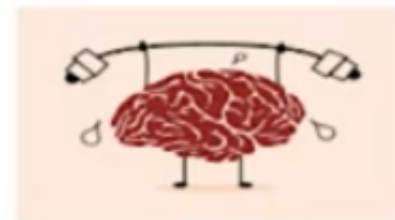
You can also use this sheet to make your own right angle checker

Warm up!

How many angles does this shape have?



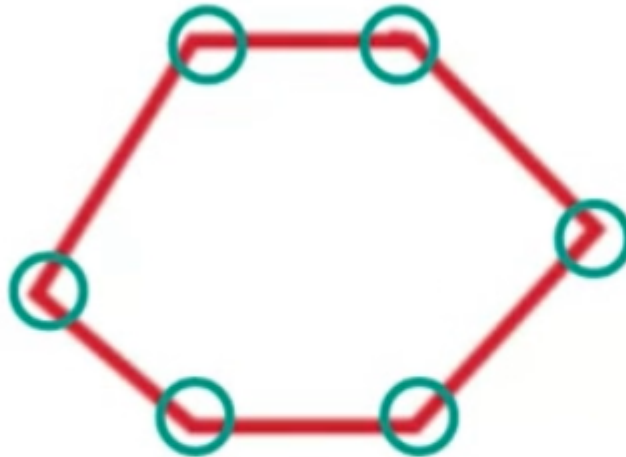
Can you remember the definition of 'angle'?



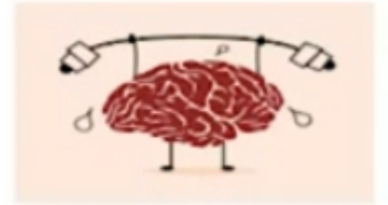
How did you get on?

Warm up!

How many angles does this shape have?



Can you remember the definition of 'angle'?



The shape has 6 angles.

An angle is the space between two lines.

Make sure you understand these star words

Star Words



One quarter



Three quarters

Turn

Right-angle



Two quarters

Two halves



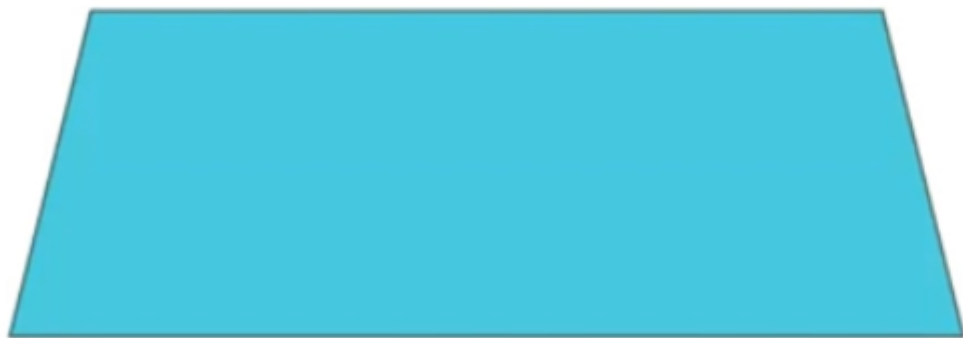
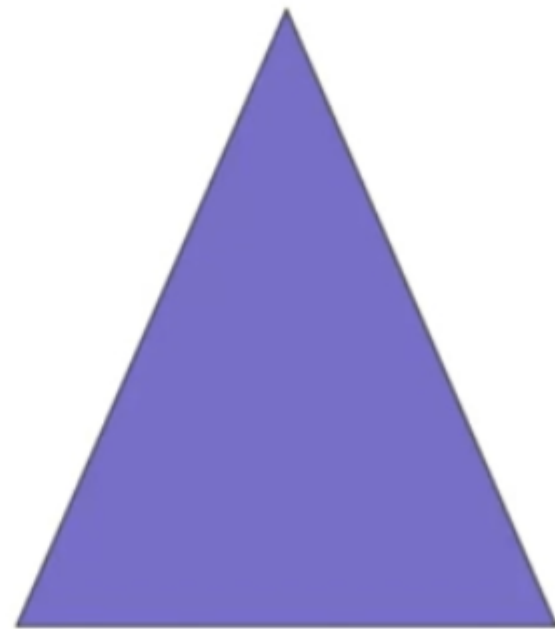
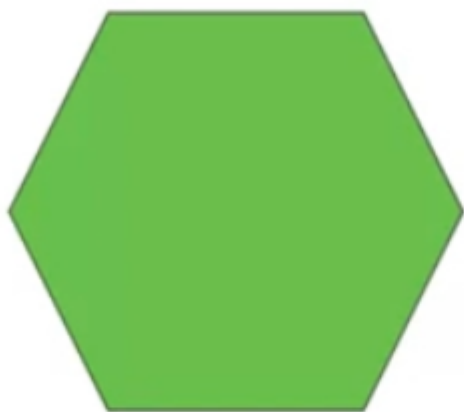
Four quarters

One half



Let's revise...

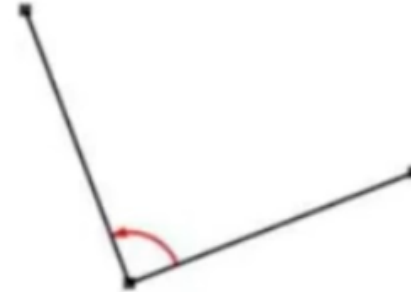
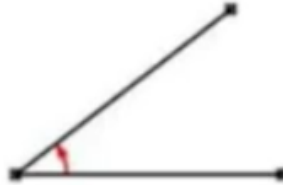
Which of these shapes has the most angles?



Have a go!

Let's learn

Can you find the smallest and the largest angle below?



How did you get on?

Let's learn

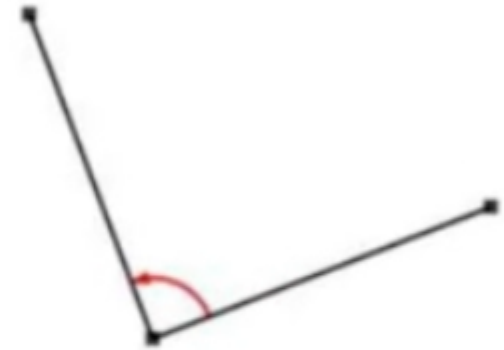
Can you find the smallest and the largest angle below?



Largest

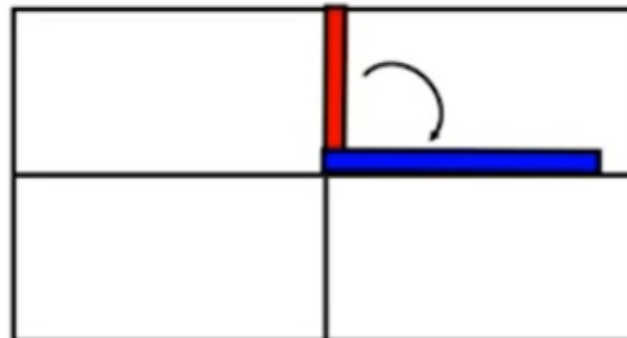
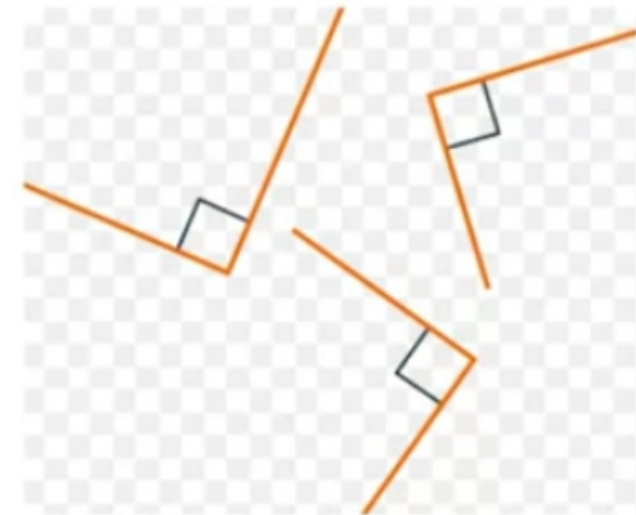
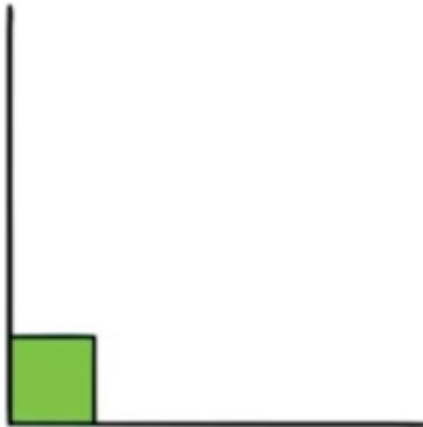
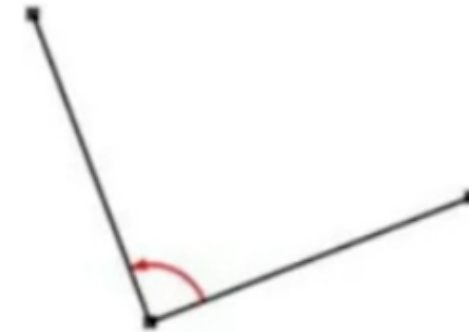


Smallest



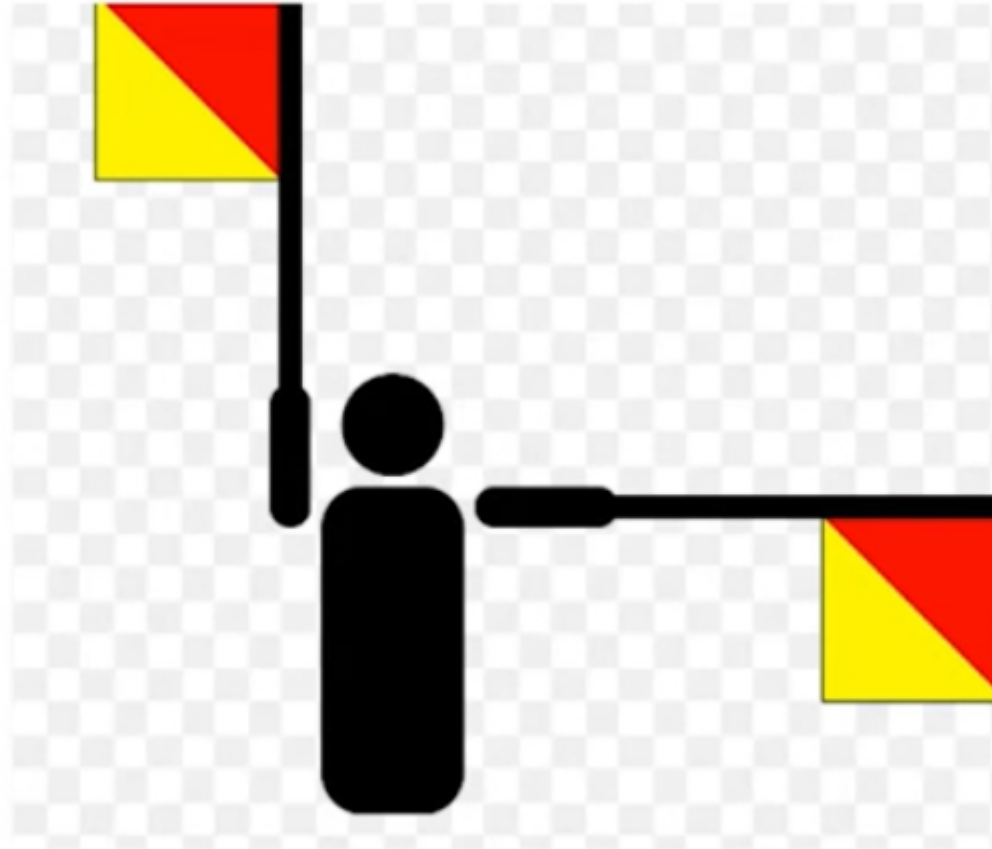
These are all right angles

Let's learn
right angles



Have a go at your angle arms

Let's learn -
Angle arms



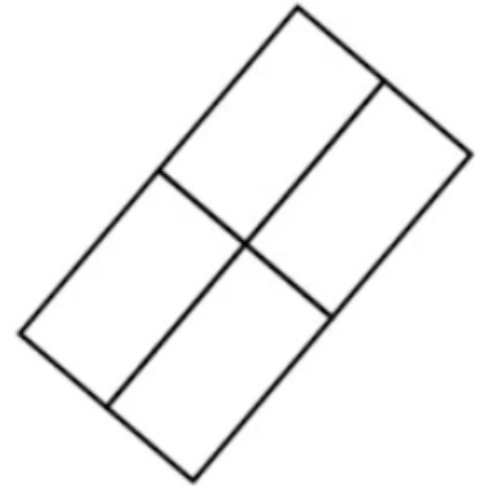
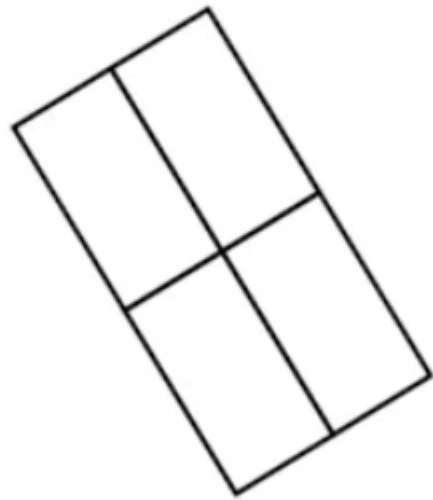
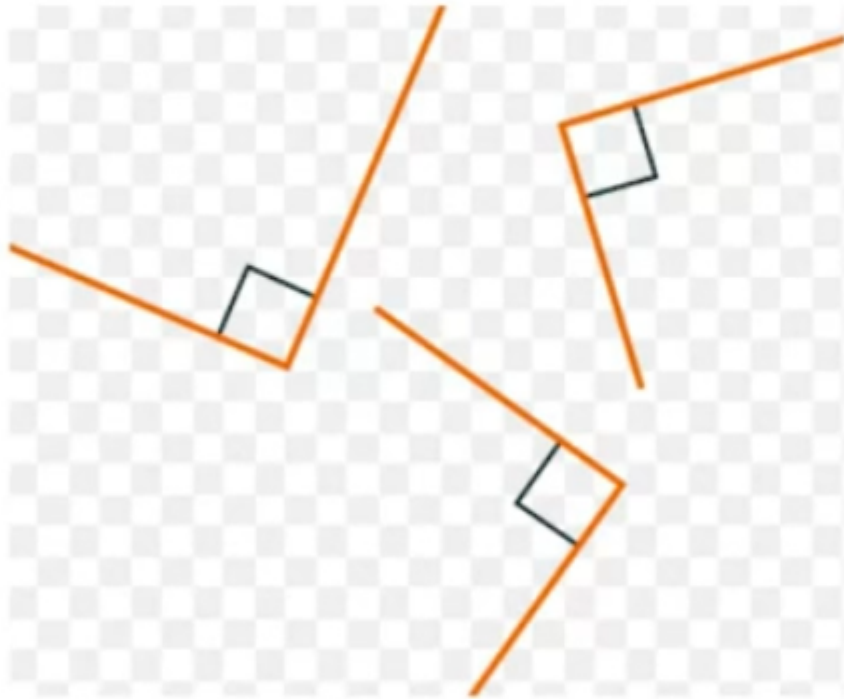
Have a go! How many right angles can you find in the picture?

Let's learn -
Can you see right angles below?



Let's learn -

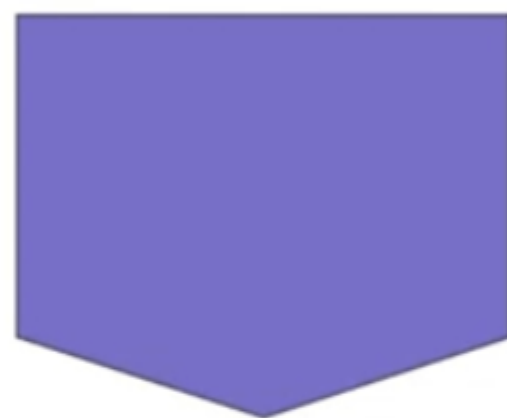
The size of the lines and the orientation do not change
the size of the angle



Let's learn -
Have a go with your right-angle checker finding some
at home.



Your turn - find the right angles created by these shapes

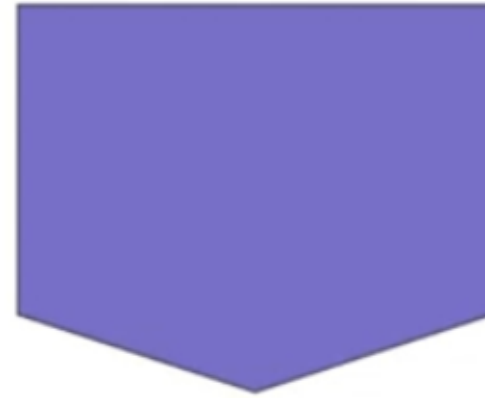


Challenge: there are 5

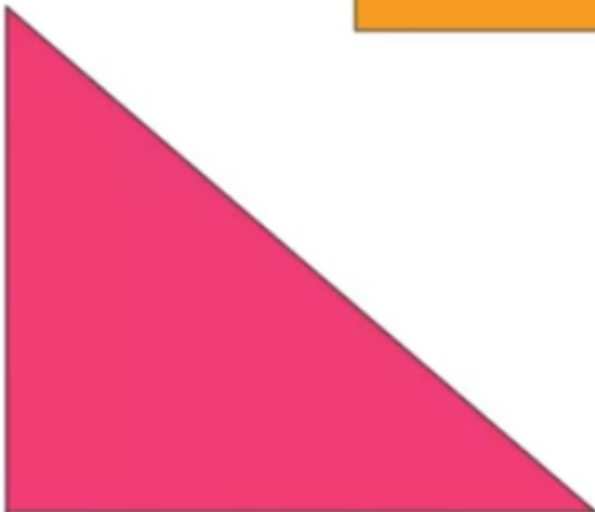


How did you get on?

Your turn - find the right angles created by these shapes



Challenge: there are 5



I know that if an angle is a quarter turn it is always called a right-angle



Right angle

Exactly 90°

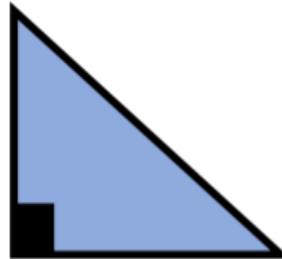
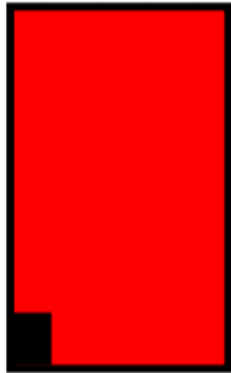
Often -
right-angles have
this square in the
corner



True

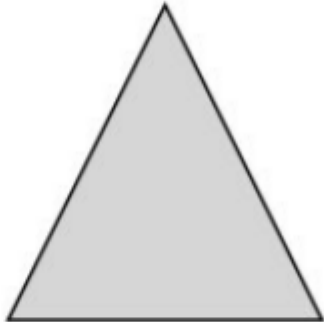
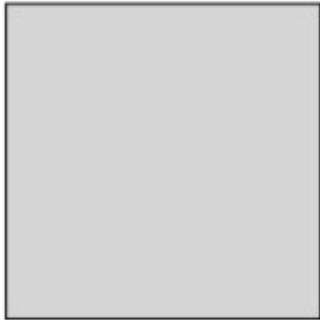
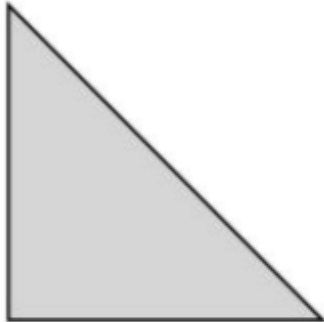
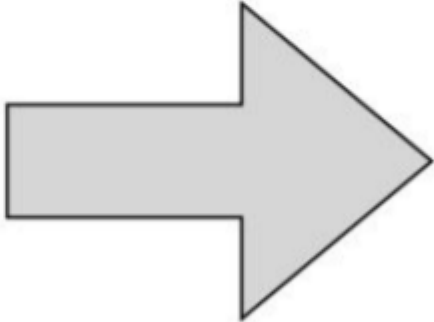

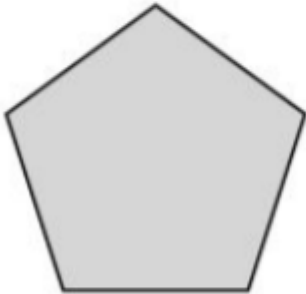
Did you get
this correct?

All of these shapes have right angles



Now complete the sheets on the next two slides. If you can't print them off just have a go in your home learning book. There are a couple of additional sheets from the white rose resources. Tomorrow's lesson will begin by going through the answers.

Part A Decide which of these shapes have rights angles

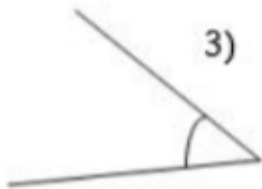
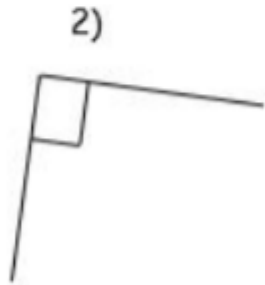
1) 	2) 	3) 
4) 	5) 	6) 

Challenge - Which do you think has the most right angles?

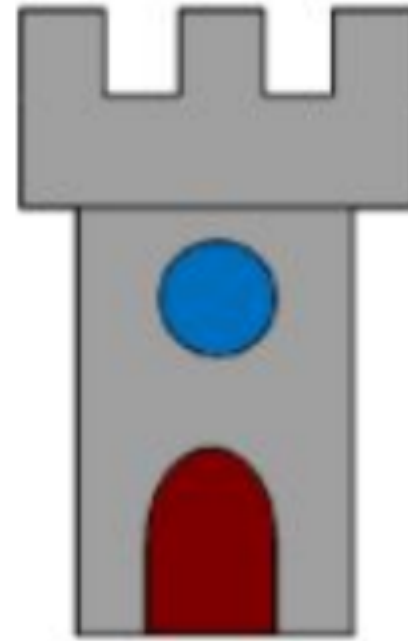


Part B

1. Find the right angle below



2. Circle all the right angles in this picture



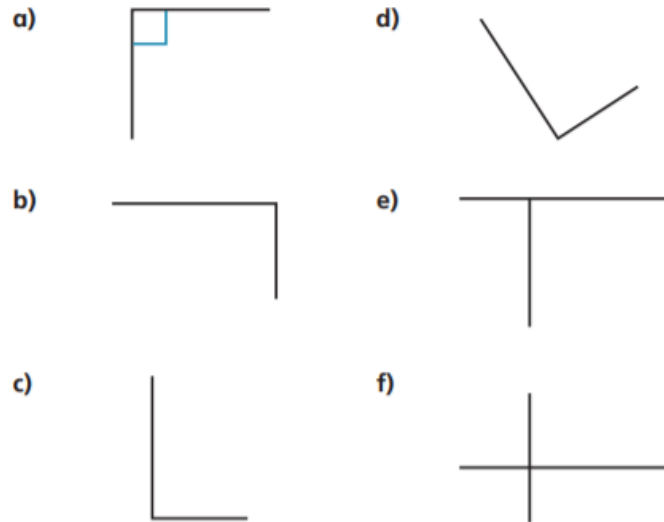
Challenge - Draw shapes that have 1, 2, and 4 right angles



Right angles in shapes

Maths

- 1 There is at least one right angle in each picture.
Mark the right angles on the pictures.
The first one has been done for you.



Compare answers with a partner.

- 2 A rectangle has four right angles.
Mark the right angles on the rectangle.



- 3 Alex and Jack are identifying right angles.



Both of the angles
are right angles.

Alex



Jack

I disagree. The first
one is a right angle but the
second one is a left angle because
it is on the left of the line.

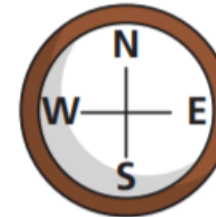
Who do you agree with? _____

Talk about it with a partner.

- 4 Dexter is facing north.
He turns a quarter turn.



This is the same as
one right angle.



Do you agree with Dexter? _____

Talk about it with a partner.

5 Complete the sentences.

A quarter turn is equal to right angle.

A half turn is equal to right angles.

A three-quarter turn is equal to right angles.

A full turn is equal to right angles.

6 Draw the right angles on each shape.

a)



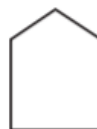
c)



b)



d)



7 Look at the number of right angles in each shape.

Sort the shapes into the table.



B



D



F



H



0 right angles	1 right angle	2 right angles	3 right angles	4 right angles

8 Teddy and Whitney are identifying right angles.



Teddy

I can see five right angles.



Whitney

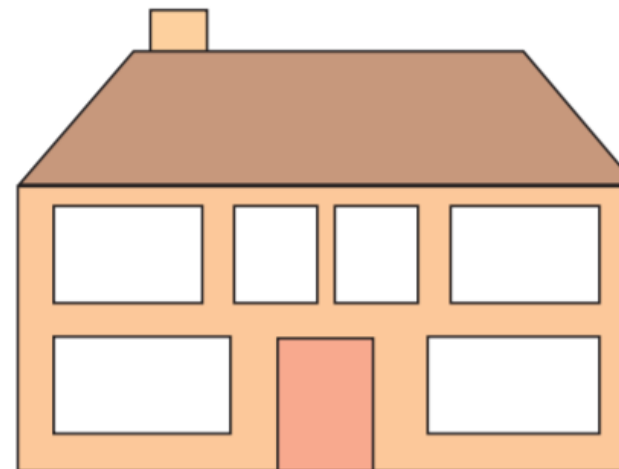
I can see six!

Who do you agree with?

Draw on the shape to show your thinking.

9 How many right angles can you find in the picture?

Mark them on the picture.



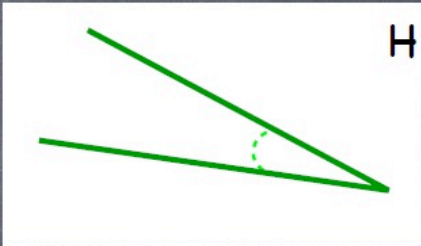
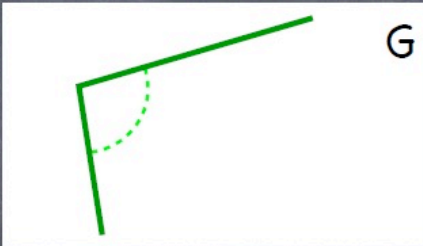
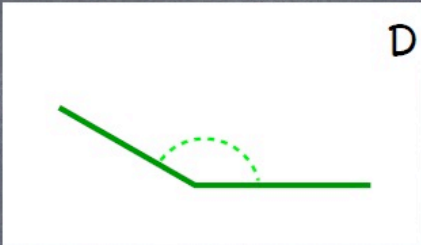
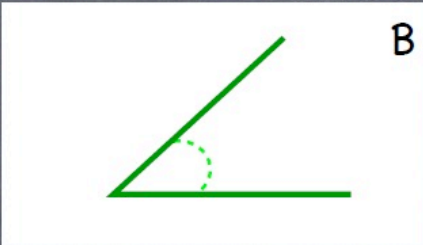
Create your own problem like this for a partner.

Challenge

Answers on
the next
slide so no
peeking!



Can you work out which of these angles are bigger than a right angle and which are smaller?

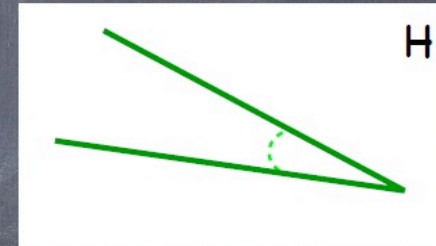
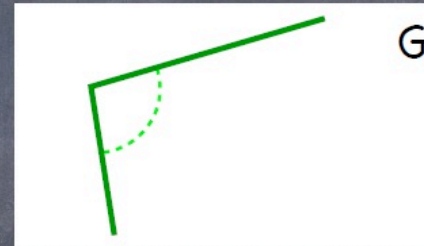
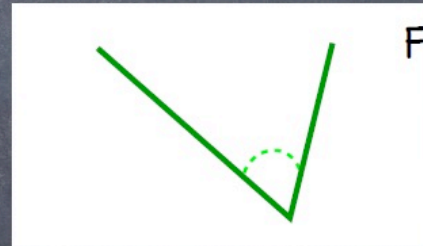
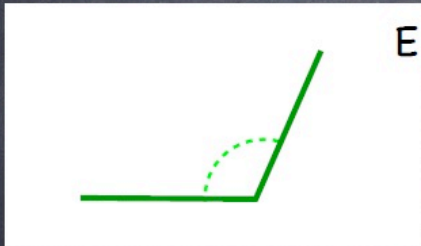
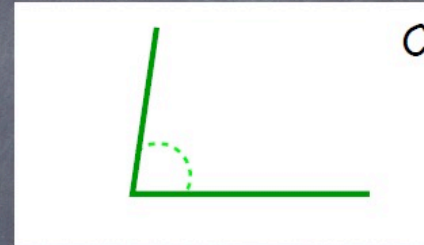
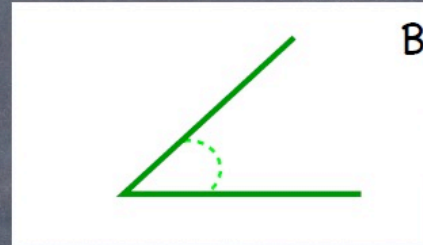
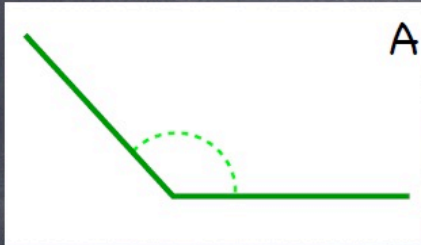


Bigger than a right angle	Smaller than a right angle

BACK

NEXT

Did you get them all right? How could you check any you were unsure about?



Bigger than a right angle

Smaller than a right angle

A

D

E

G

B

C

F

H

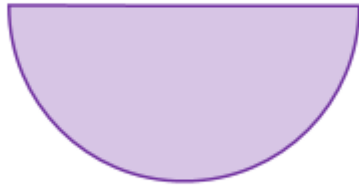
BACK

NEXT

Challenges

True or False?

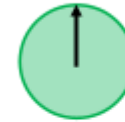
This shape has two right-angles.



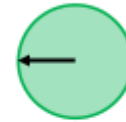
Explain your answer.



The arrow on a spinner started in this position.



After making a turn it ended in this position.



Jack says,



The arrow has moved a quarter turn anti-clockwise.

Alex says,



The arrow has moved a three-quarter turn clockwise.

Who do you agree with?