Number knowledge

We are focussing on rapid recall of times tables.

For your number knowledge sessions at home this week play the following games.

Non computer options

- Play the times table game with a pack of cards
- Get a family member or friends to test you
- Draw out your chosen times table (e.g. 6 x table) in as many different colours as you can
- Create your own song or rhyme to help you remember your chosen times table

purple mash

You all have a Purple Mash login – our school postcode is OX16 2EG

You have a TT rockstars login – our school postcode is OX16 2EG

Mrs Lee's Group

Monday

WALT understand turns and angles.

Watch this video:

https://vimeo.com/549180654

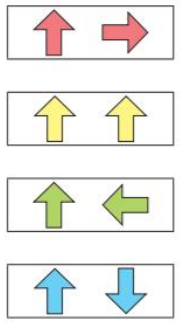
Turns and angles

1 Which pictures show at least one angle? Tick your answers.

Compare answers with a partner.

2 The arrows are being turned clockwise.

Match the picture to the turn.



half turn

quarter turn

full turn

three-quarter turn

3 Here is a compass.

a) Aisha is facing north.

She turns a quarter turn clockwise.

What direction is she facing now? _____

b) Tommy is facing north.

He turns a quarter turn anticlockwise.

What direction is he facing now? _____

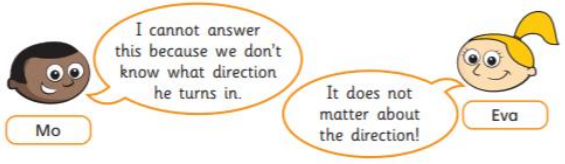
c) Annie is facing east.

She turns a three-quarter turn clockwise.

What direction is she facing now? _____

4 Mo and Eva are answering a question.

Mr Lee is facing west. He turns a half turn. What direction is he facing now?



Who do you agree with? _____

Talk about it with a partner.

5 Esther and Brett are showing what time it will be in a quarter of an hour.

Here is the time now.

Here are their answers.

Esther

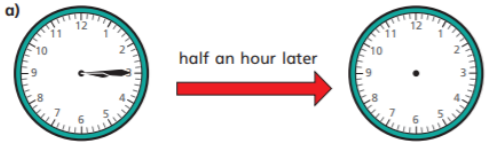
Brett

Who is correct? _____

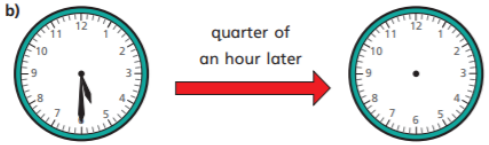
Talk about it with a partner.

6 Draw hands on the clocks to show the new times.

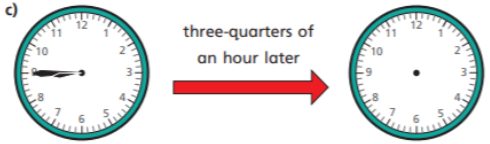
a)



b)

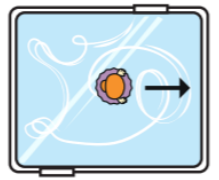


c)



d)

7 A figure skater is facing the direction shown.



She turns a quarter turn clockwise and then a three-quarter turn clockwise.

a) Draw on the picture to show that she ends up facing the same way as she started.

b) What other turns could she make and still end up facing the same way?

_____

_____

_____

Compare answers with a partner.

Mrs Smith's Group

Monday

WALT identify angles.

Watch this video:

https://vimeo.com/555158652

Identify angles

1 Complete the sentences.

Use the word bank to help you.

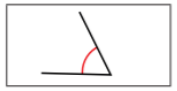
90	180	greater	less

a) A right angle is ☐ degrees.

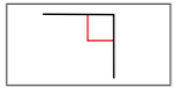
b) An acute angle is _____ than ☐ degrees.

c) An obtuse angle is _____ than ☐ degrees but less than ☐ degrees.

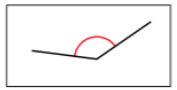
2 Match the angles to the labels.



right angle



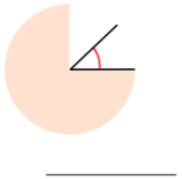
acute angle



obtuse angle

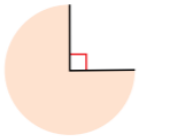
3 Label the angles: acute, obtuse or right angle.

a)



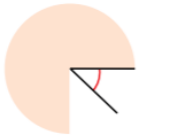
_____

b)



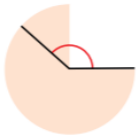
_____

c)



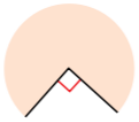
_____

d)



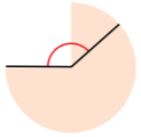
_____

e)



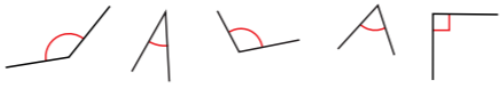
_____

f)



_____

4 Tick all the acute angles.



5 Tick all the obtuse angles.

6 Label the angles: acute, obtuse or right angle.

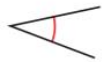
a)

_____

b)

_____

c)



_____

d)

_____

7 Is the angle acute, obtuse or a right angle?

a) 35° _____

b) 99° _____

c) 90° _____

d) 89° _____

e) 121° _____

f) 179° _____

How do you know?

8

Angle B is obtuse because it's bigger than the right angle.

A

B

Do you agree with Teddy? _____

Explain your answer.

9 Are the statements always true, sometimes true or never true?

Explain your answer.

a) An obtuse angle is a greater turn than an acute angle.

_____

b) An acute angle is a greater turn than a right angle turn.

_____

c) If you turn through two acute angles you will have turned through an obtuse angle.

_____

Mrs Lee's Group

Tuesday

WALT identify right-angles in shapes.

Watch this video:

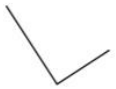
https://vimeo.com/549181115

Right angles in shapes

Rose 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.

a)

d) 

b)

e)

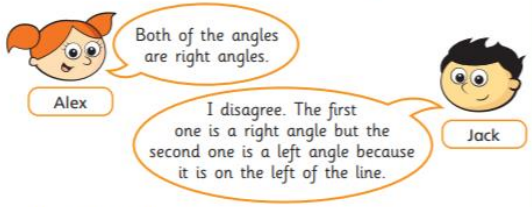
c)

f)

Compare answers with a partner.

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

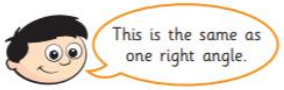
3 Alex and Jack are identifying right angles.



Who do you agree with? _____

Talk about it with a partner.

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



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.

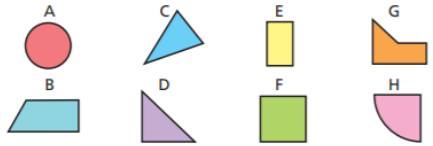
a)

c)

b)

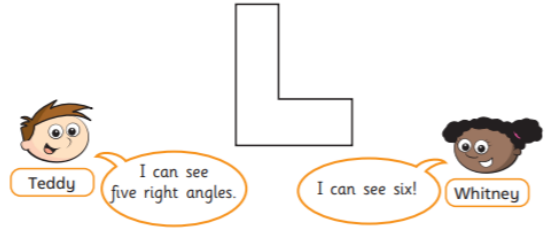
d)

7 Look at the number of right angles in each shape.
Sort the shapes into the table.



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

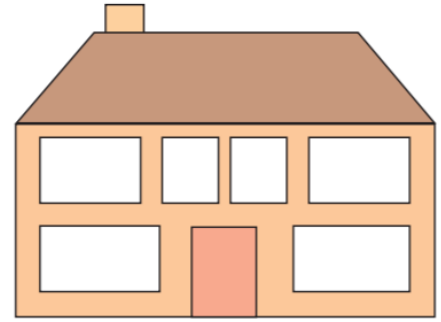
8 Teddy and Whitney are identifying right angles.



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.

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Mrs Smith's Group

Tuesday

WALT compare and order angles.

Watch this video:

https://vimeo.com/555158687

Compare and order angles

1 Here are two angles.

a) Which angle is obtuse? _____

b) Which angle is acute? _____

How do you know?

2 Here are two angles.

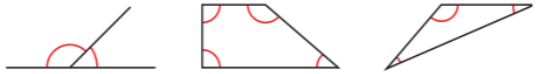
a) What type of angle is angle X? _____

b) What type of angle is angle Y? _____

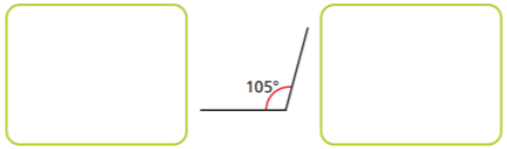
c) Which angle is smaller? _____

How do you know?

3 Circle the greatest angle in each diagram.



4 Here is an angle.



a) Draw a smaller angle than 105° in the box on the left.

b) Draw a greater angle than 105° in the box on the right.

c) Is this statement true or false?

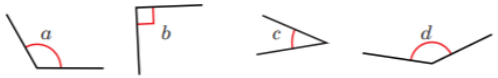
The angles are in ascending order of size.

_____

Explain your answer.

5 Order the angles from greatest to smallest.

a)



_____

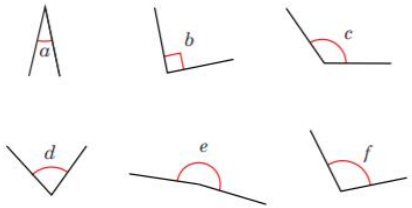
b)

_____

c)

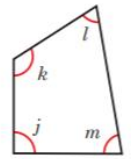
_____

6 Compare and order the angles from smallest to greatest.



_____

7 Four angles are labelled in the quadrilateral.



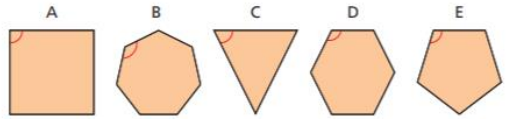
a) Which of the angles are acute angles? _____

b) Which of the angles are obtuse angles? _____

c) Write the angles in order of size, starting with the smallest.

_____

8 An interior angle is marked in each polygon.



Order the interior angles of the polygons from smallest to greatest.

_____

What do you notice about the number of sides a polygon has and the size of its interior angle?

Mrs Lee's Group

Wednesday

WALT compare right-angles.

Watch this video:

https://vimeo.com/553040645

Compare angles

1 Here are some angles.

a) Circle the angle that is greater than a right angle.

b) Circle the angle that is less than 90 degrees.

2 Draw three different angles that are less than a right angle.

Compare answers with a partner.

Complete the sentence.

These are all examples of _____ angles.

3 Draw two different obtuse angles.

Compare answers with a partner.

Complete the sentence.

Obtuse angles are greater than ☐ degrees

but less than ☐ degrees.

4 Is the angle between the hands of the clock acute or obtuse?

a)

_____

b)

_____

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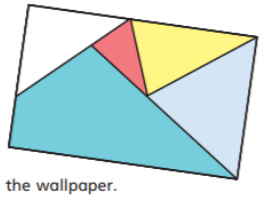
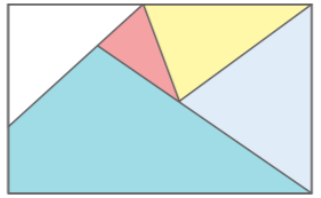
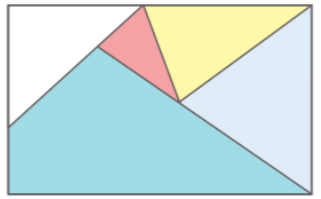
5 Here is a piece of wallpaper.



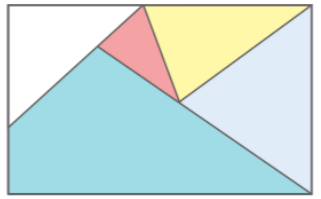
a) Mark two right angles on the wallpaper.



b) Mark four acute angles on the wallpaper.



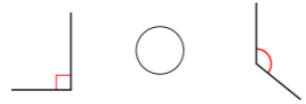
c) Mark two obtuse angles on the wallpaper



6 Write <, > or = to compare the sizes of the angles.

a)

b)



c)

7 Draw a shape that has one right angle, two acute angles and one obtuse angle.

Compare answers with a partner.

What is the same and what is different about your shapes?

Mrs Smith's Group

Wednesday

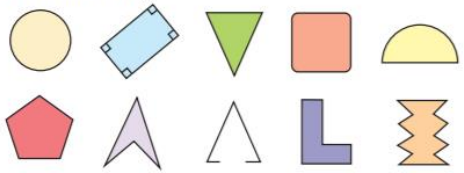
WALT identify triangles.

Watch this video:

https://vimeo.com/559393590/611c50f4a1

Triangles

1 Here are some shapes.



a) Tick the polygons.

b) Talk to a partner about the shapes you have not ticked. Why are they not polygons?

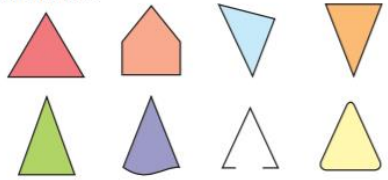
c) Write a definition of a polygon.

_____

_____

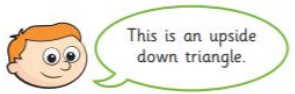
Compare your definition with a partner's.

2 Tick the triangles.



For any shapes you have not ticked, talk to a partner about why somebody might think they are triangles.

3 Ron is classifying triangles.



a) Ron is incorrect.

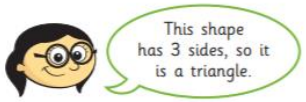
Explain why.

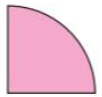
_____

_____

b) What type of triangle is it? _____

4 Annie is identifying shapes.





Do you agree with Annie? _____

Explain your answer.

_____

_____

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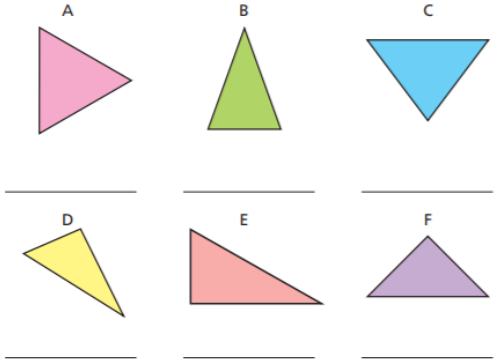
5 Match the type of triangle to the definition.

scalene	2 sides and 2 angles equal
equilateral	no sides or angles equal
isosceles	all sides and all angles equal

6 Label each triangle as either equilateral, isosceles or scalene.

You will need to measure the side lengths.



_____ _____ _____

_____ _____ _____

7 Draw each triangle in the grid.

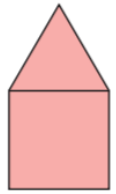
a) isosceles b) right-angled c) scalene

Which triangle was hardest to draw?

8 The diagram shows an equilateral triangle and a square.

The perimeter of the square is 100 cm.

Work out the perimeter of the compound shape.



perimeter = ☐ cm

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Mrs Lee's Group

Thursday

WALT draw accurately.

Watch this video:

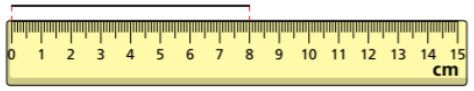
https://vimeo.com/553041402

Draw accurately

Maths

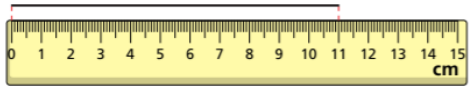
1 How long is each line?

a)



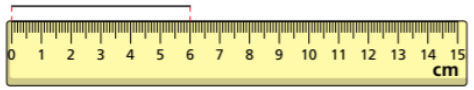
cm

b)



cm

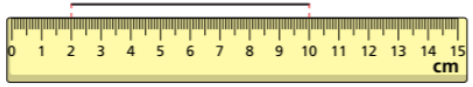
c)



cm

2 Draw two lines that are each 5 cm long.

3 Dani says the line is 10 cm long.



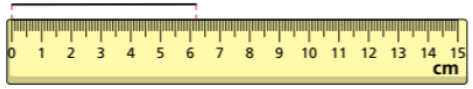
a) What mistake has Dani made?

b) How long is the line?

cm

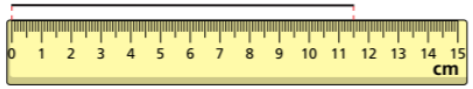
4 What is the length of each line in millimetres?

a)



mm

b)



mm

c)

mm

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5 Use a ruler to draw the lines.

a) Draw a line 8 cm long.

b) Draw a line 80 mm long.

What do you notice about the lines you have drawn?

Why is this?

6 Use a ruler to help you answer the questions.

a) Draw a 4 cm by 4 cm square.

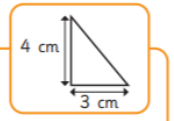
b) Measure the length of the diagonal.

Give your answer in millimetres.

mm

7 Draw a rectangle 8 cm long and 32 mm wide.

8 a) Make a sketch of the triangle.



b) Use your drawing to work out the perimeter of the triangle.

cm

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Mrs Smith's Group

Thursday

WALT identify quadrilateral.

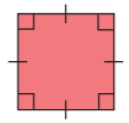
Watch this video:

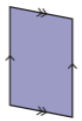
https://vimeo.com/560342152

Quadrilaterals

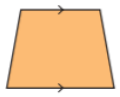
1 Use the word bank to label each quadrilateral.

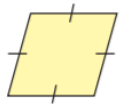
rhombus | parallelogram | trapezium | rectangle | square

a) 

d) 

b)

e) 

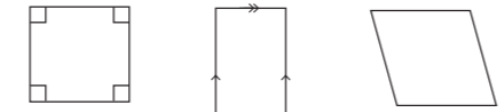
c) 

How did you know which shape was which?

2 Here are some quadrilaterals.

A

B

C 

D

E

a) Mark any right angles on the shapes.
One shape has been done for you.

b) Mark any pairs of parallel lines.
One shape has been done for you.

c) Which shapes do not have any right angles?

d) Which shapes have two pairs of parallel lines?

e) Which shapes have four equal sides?

Compare answers with a partner.

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3 Complete the table.

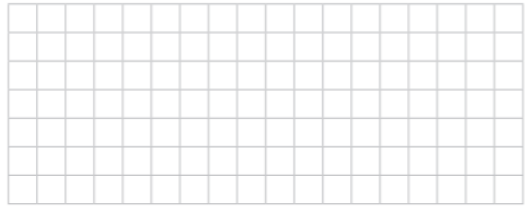
Shape	Polygon?	Number of sides	Number of right angles	Number of pairs of parallel sides	Number of equal sides
	Yes	4	4	2	2 pairs
					2

What is the same about all of the shapes?

What is different?

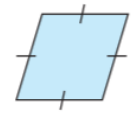
4 Draw the shapes on the grid.

a) square b) trapezium c) parallelogram



5

This is a square because it has got 4 equal sides.



Do you agree with Rosie? _____

Explain your answer.

6 Complete this Frayer Model to describe a quadrilateral.

My definition	Key characteristics
Quadrilateral	
Example	Non-example

Mrs Lee's Group

Friday

WALT understand horizontal and vertical.

Watch this video:

https://vimeo.com/553042103

Horizontal and vertical

1 Circle the line that is horizontal.

2 Circle the line that is vertical.

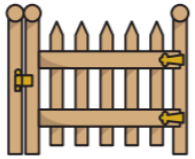
3 Use a ruler to draw the lines.

a) Draw a horizontal line 5 cm long.

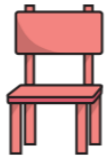
b) Draw a line that is not horizontal or vertical.

c) Draw a vertical line 5 cm long.

4 Tick two horizontal lines on the gate.



5 Tick three vertical lines on the chair.



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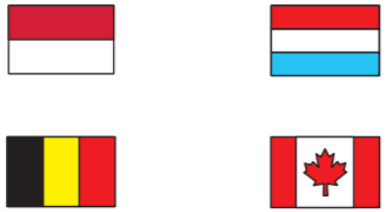
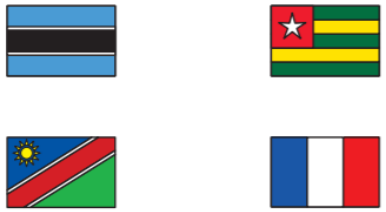
6 Here are some flags.

a) Circle the flags that have horizontal stripes.



b) Circle the flags that have vertical stripes.

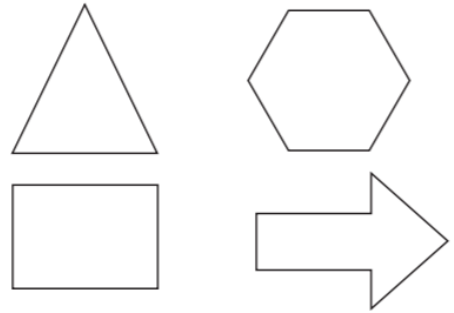


c) Is the statement true or false?

This flag has vertical and horizontal stripes.

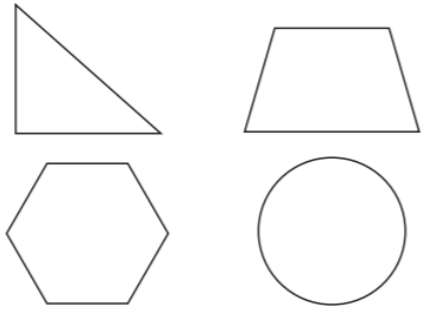
7 Tick the shapes that have a vertical line of symmetry.

Draw on the shapes to show the line of symmetry.



8 Tick the shapes that have a horizontal line of symmetry.

Draw on the shapes to show the line of symmetry.



Mrs Smith's Group

Friday

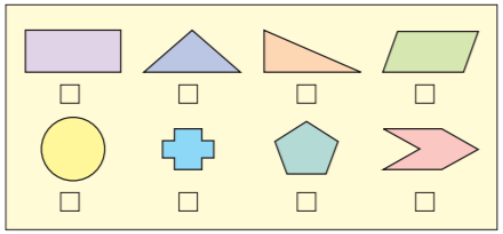
WALT identify lines of symmetry.

Watch this video:

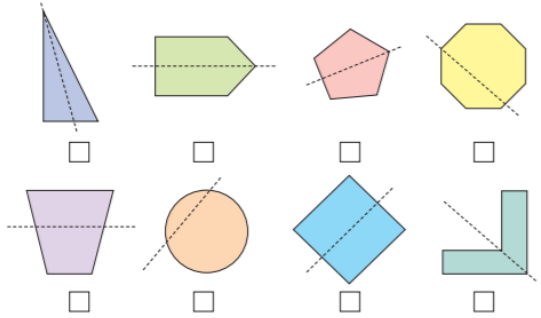
https://vimeo.com/562719687

Lines of symmetry

1 Tick the shapes that have at least one line of symmetry.



2 Tick the shapes that show a correct line of symmetry.



How did you know which shapes to tick?

3 Draw one line of symmetry on each shape.

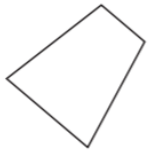
a)

b)

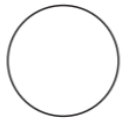
c)

d)

e)



f)



g)

h)

Is there more than one possible answer for each?

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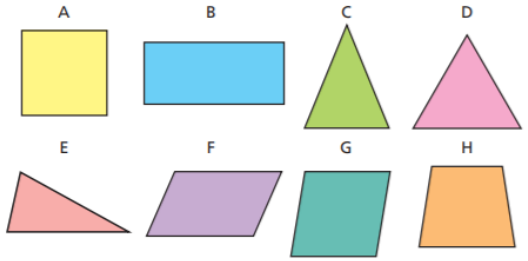
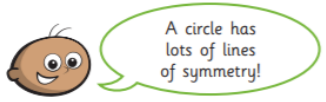
4 Sort the shapes into the table.

The first one has been done for you.



	1 line of symmetry	More than 1 line of symmetry	No lines of symmetry
Triangle			
Quadrilateral		A	

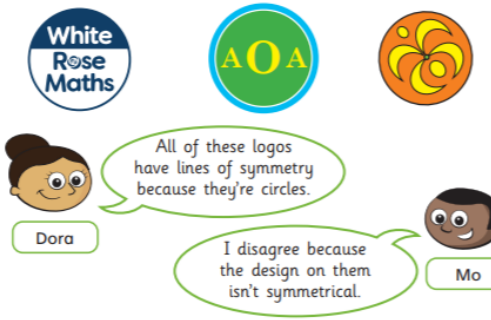
5 Tommy is folding a paper circle to find lines of symmetry.



Do you agree with Tommy? _____

Talk about it with a partner.

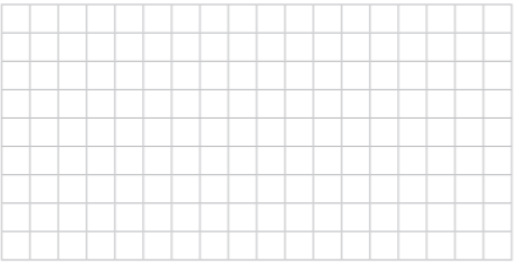
6 Here are 3 logos.



Who do you agree with? _____

Talk about it with a partner.

7 Shade a maximum of 8 squares to make a symmetrical shape.



Compare answers with a partner. How many different shapes can you make?