Hello Year 3,

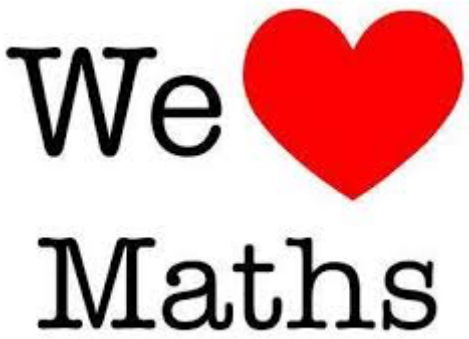
Your Maths activities this week are based on **angles**
Look at pages 10 – 54 for this week's work ☺.

On page 3 you will find a Times Table Rockstars practise sheet. Time yourself – how quickly can you answer the questions? There is also another times table board game on page 4 – maybe you could have a go at creating your own ☺ or drawing a game in the garden using chalk.

On pages 5 – 9, you will find some key skills questions. Try and answer one of these per day.

I know you will do brilliantly with your Maths work this week because you are all brilliant ☺.

Enjoy,
Miss Robertson



Well done to Lissie for some fantastic work on measuring.
☺
Thank you for working so hard!

Name:_____

Times Tables Rock Stars

3,4,8 Times Tables

Week 9 Session 1
2020-21
3s 4s and 8s
5 a week

1	8 × 4 = _____	21	4 × 6 = _____	41	3 × 3 = _____
2	8 × 7 = _____	22	4 × 5 = _____	42	12 × 4 = _____
3	4 × 10 = _____	23	3 × 12 = _____	43	1 × 8 = _____
4	8 × 9 = _____	24	8 × 9 = _____	44	6 × 4 = _____
5	4 × 8 = _____	25	3 × 6 = _____	45	2 × 4 = _____
6	4 × 2 = _____	26	3 × 10 = _____	46	10 × 4 = _____
7	4 × 4 = _____	27	8 × 2 = _____	47	5 × 8 = _____
8	3 × 5 = _____	28	8 × 7 = _____	48	9 × 8 = _____
9	3 × 5 = _____	29	4 × 1 = _____	49	4 × 3 = _____
10	4 × 11 = _____	30	8 × 1 = _____	50	7 × 3 = _____
11	4 × 9 = _____	31	3 × 8 = _____	51	6 × 8 = _____
12	8 × 12 = _____	32	7 × 8 = _____	52	1 × 8 = _____
13	4 × 7 = _____	33	11 × 8 = _____	53	8 × 8 = _____
14	8 × 4 = _____	34	1 × 4 = _____	54	2 × 3 = _____
15	4 × 11 = _____	35	9 × 3 = _____	55	3 × 4 = _____
16	8 × 11 = _____	36	10 × 8 = _____	56	7 × 3 = _____
17	8 × 10 = _____	37	1 × 8 = _____	57	4 × 4 = _____
18	8 × 4 = _____	38	7 × 8 = _____	58	11 × 4 = _____
19	3 × 7 = _____	39	12 × 4 = _____	59	9 × 4 = _____
20	4 × 1 = _____	40	4 × 3 = _____	60	1 × 8 = _____

Time taken

:

3 minute time limit

Score

60

What's your rock status?

VULNERABLE
< 18 correct in 3 mins

GARAGE ROCKER
18-19 correct in 3 mins

BUSKER
20-21 correct in 3 mins

GIGGER
22-24 correct in 3 mins

UNSIGNED ACT
25-29 correct in 3 mins

BREAKTHROUGH ARTIST
30-35 correct in 3 mins

SUPPORT ACT
36-44 correct in 3 mins

HEADLINER
45-59 correct in 3 mins

ROCK STAR
All correct in ≤ 3mins

ROCK LEGEND
All correct in ≤ 2min

ROCK HERO
All correct in ≤ 1 min

TIMES TABLES ROCK STARS

Multiplication Dice Game Worksheet

How to play:

1. Roll a pair of dice.

2. Multiply your 2 numbers.

3. Colour your answer in on the grid.

4. The first person to colour 4 in a row wins!

18	12	24	8	10	24	6	15
36	30	12	9	2	5	4	18
4	24	4	8	6	8	15	3
10	12	25	15	20	6	16	8
36	12	12	30	5	12	5	30
10	25	1	9	5	6	10	20
18	20	9	10	16	15	4	3
1	30	4	20	2	3	6	15

Daily Maths Key skills: Try and complete one of these per day ☺
Don't worry about printing – note the answers down on a piece of paper.

578 + 247 =

328 – 112 =

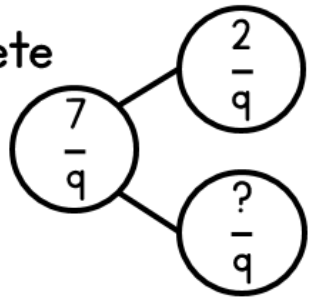
507 + 417 =

642 – 228 =

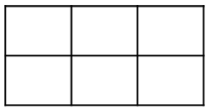
4 x 5 = 20
What other facts do we know using this calculation?

Do now – Monday

Complete



How many thirds are equivalent to four sixths?



Deepen it:

Order the fractions in ascending order.

$\frac{4}{13}$, $\frac{11}{13}$, $\frac{9}{13}$

Daily Maths Key skills: Try and complete one of these per day ☺
Don't worry about printing – note the answers down on a piece of paper.

What is the value of the underlined digit?
35**8**

473 + 206 =
984 – 376 =

Order the fractions from largest to smallest
$\frac{1}{3}$, $\frac{1}{8}$, $\frac{1}{6}$, $\frac{1}{5}$

Do now – Tuesday

You have the digit cards
8 , **4** , **9**
What numbers can you make?
You must only use each card once

Calculate £4 and 30p add £3 and 70p


Deepen it:
Look at the numbers you have made using
8, **4**, **9**
Write them in order from smallest to largest
Write the numbers in words

Daily Maths Key skills: Try and complete one of these per day ☺
Don't worry about printing – note the answers down on a piece of paper.

What time is it when the minute hand and hour hand are both pointing at 12?

337 + 208 =

956 - 458=

4 x 8 = ___
2 x 7 = ___
3 x 6 = ___
2 x 5 = ___
5 x 8 = __

If 4 x 3 =12, what is 4 x 30? How do you know?

Do now – Wednesday

Sort these lengths into ascending order:

122cm , 1m and 2cm, 2 m

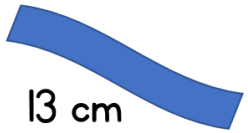
Deepen it:

Here are three ribbons, what is the total length of the ribbons?

17 cm

4 cm

13 cm



Daily Maths Key skills: Try and complete one of these per day ☺
Don't worry about printing – note the answers down on a piece of paper.

Complete $\frac{}{12} + \frac{5}{12} = 1$

Finish this fact family:

3 x 6 = 18

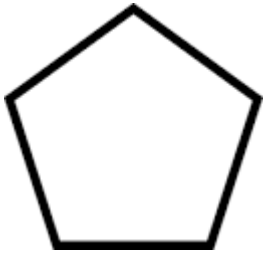
24 ÷ 8 = ___
96 ÷ 12 = ___
36 ÷ 3 = ___
20 ÷ 4 = ___
56 ÷ 8 = ___
28 ÷ 4 = ___

Do now – Thursday

How many sixths make one whole?

Deepen it:

How many sides so 6 pentagons have?



Complete $\frac{}{10} + \frac{4}{10} + \frac{3}{10} = \frac{9}{10}$

Daily Maths Key skills: Try and complete one of these per day ☺
Don't worry about printing – note the answers down on a piece of paper.

What is one tenth smaller than one?

Write 4 tenths as a decimal

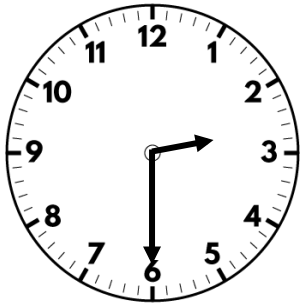
10 x 8 = 76 + ___
7 x 8 = 60 - ___
6 x 3 = 20 - ___
7 x 2 = Half of ___
5 x 3 = 10 + ___

Do now – Friday

Complete $\frac{10}{12} - \frac{\ }{12} = \frac{1}{12}$

Deepen it:

What time will the clock show in 15 minutes?



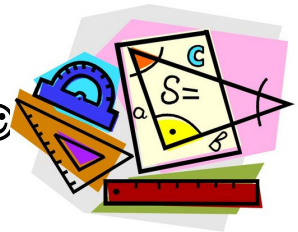
One side of a hexagon is 5 cm, what is the perimeter of the hexagon?

Maths
Week commencing 22nd June

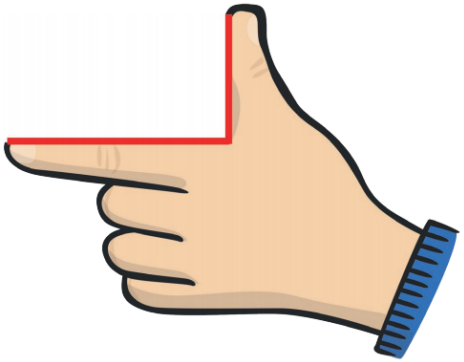
This week, I would like you to look at the **White Rose Home Learning videos for Summer Week 9 (W/C 22nd June)**. This week we will be looking at **Angles**. This is a new topic that we have not covered in school, so please don't worry if you find it tricky at first. Keep persevering! If you do need any more support/ resources please contact the school office or send an email to: info@st-jo-st.dudley.sch.uk ☺

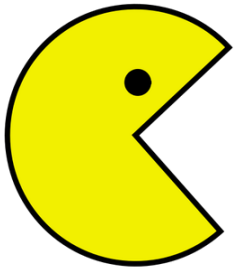
On the following pages I have selected the questions that I would like you to complete. There will also be some challenges. Give these a try if you like. If you find them tricky, please don't worry ☺

Finally, I have included some 'extra help'/ guidance for lessons 1 – 4 on pages 39 - 54, have a go at these tasks if you are finding the White Rose tasks a little tricky. These tasks don't have to be completed but are just there if you need them/ are a very keen Mathematician and love doing Maths ☺. **There are also some activities and learn screens on Education City which will help you ☺**



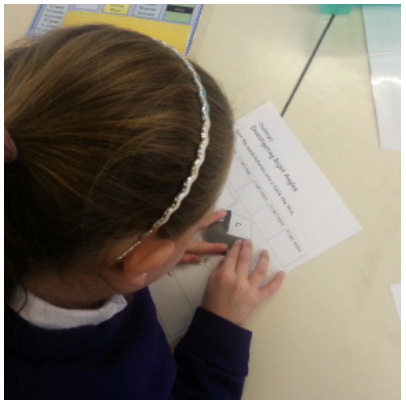
Angles





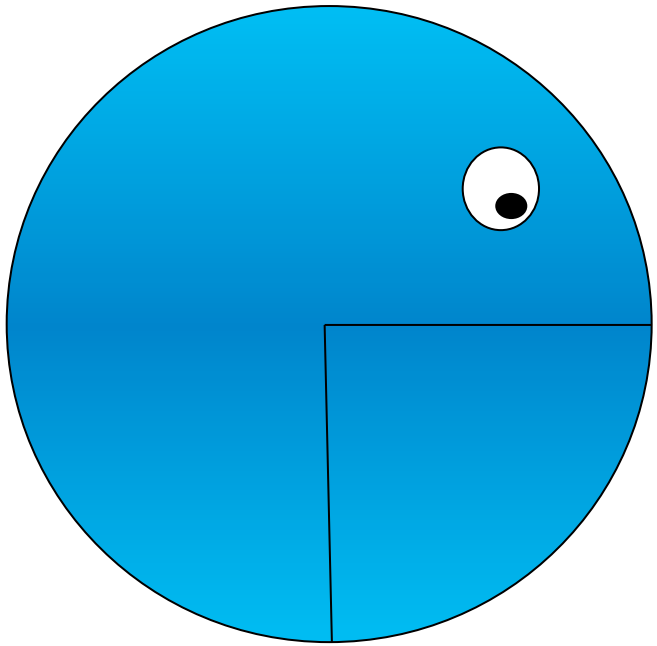
Make your own angle eater to help you with the right angle work

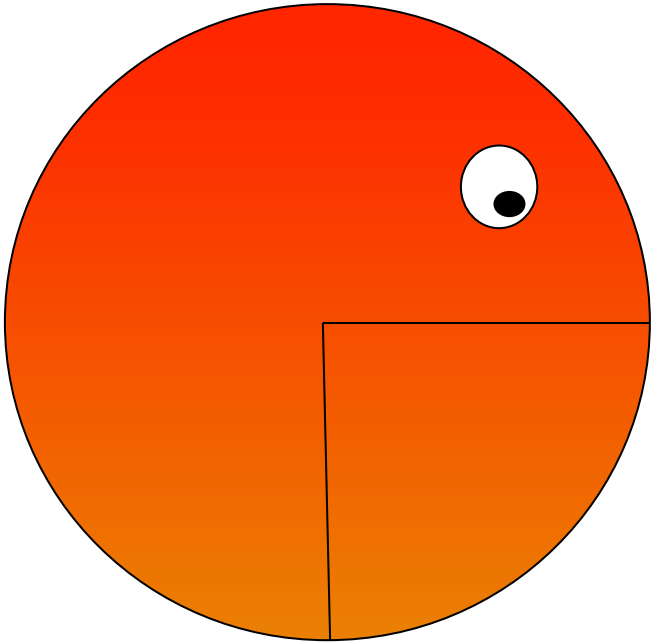
Line your angle eater up with the angle you are measuring. If it fits exactly, you have found a right angle.



Angle eater template

Don't worry if you can't print them out. You could use the corner of a post it note or make your own *(ask an adult or older sibling to help you)* ☺





Lesson 1
Right angles in shapes

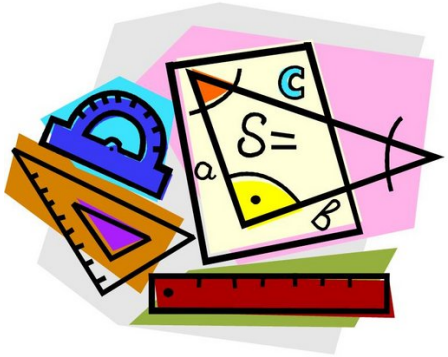
https://vimeo.com/430336748 - Link for today's video ☺

Copy and paste to your browser if it doesn't work.

1. Watch the video clip for today's teaching

2. Complete the questions on the next few pages

3. Also, have a look at BBC Bitesize Daily activities for extra learning if you like:
   https://www.bbc.co.uk/bitesize/dailylessons



Right angles in shapes

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)

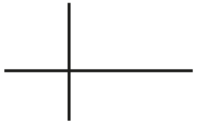
d)

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.

Alex

Both of the angles are right angles.

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.

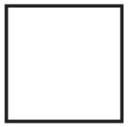
Challenges:

6 Draw the right angles on each shape.

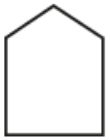
a)

c)

b)

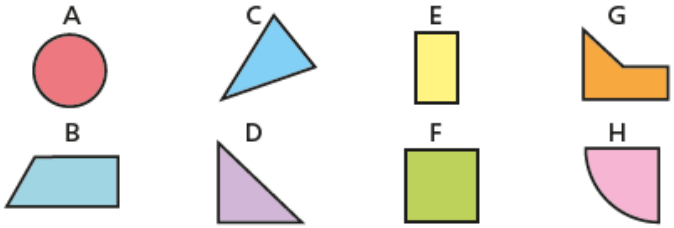


d)



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

Sort the shapes into the table.

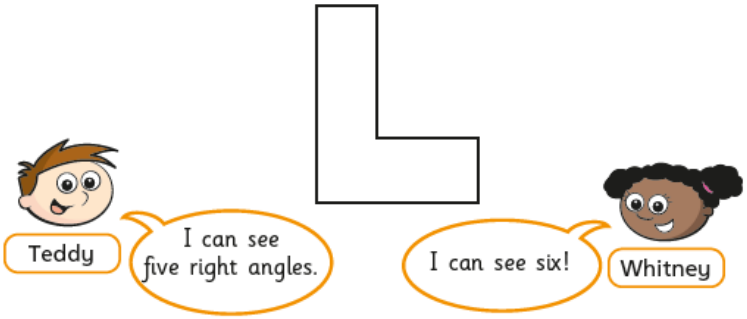


0 right angles	1 right angle	2 right angles	3 right angles	4 right angles

Use the corner of a book or a post it note to check for right angles.

Challenges:

8 Teddy and Whitney are identifying right angles.

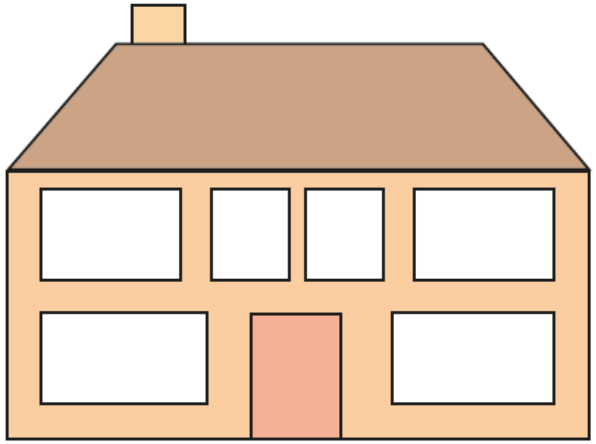


Who do you agree with? _____

Draw on the shape to show your thinking.

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

Mark them on the picture.



Design your own house with right angles in. Give it to a family member to spot the right angles. Remember to use a ruler.

ANSWERS

Right angles in shapes

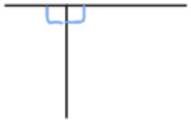
1 There is at least one right angle in each picture.
Mark the right angles on the pictures.
The first one has been done for you.

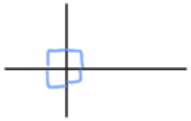
a) 

b) 

c) 

d) 

e) 

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.

Alex

Both of the angles are right angles.

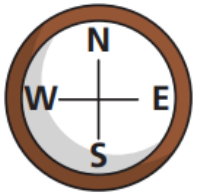
Jack

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? Alex

Talk about it with a partner.

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



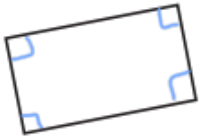
This is the same as one right angle.

Do you agree with Dexter? Yes

Talk about it with a partner.

6 Draw the right angles on each shape.

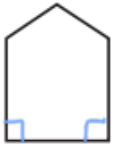
a)



c)

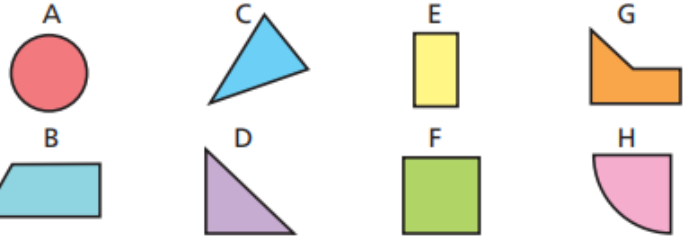
b)

d)



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

Sort the shapes into the table.



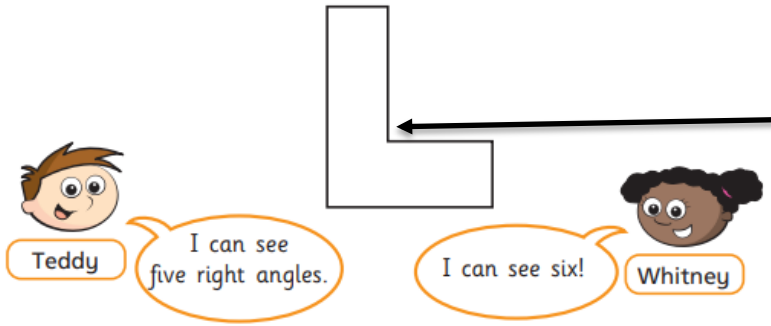
0 right angles	1 right angle	2 right angles	3 right angles	4 right angles
A C	D H	B	G	E F

ANSWERS

TOP TIPS

There is a right angle outside of the shape.

8 Teddy and Whitney are identifying right angles.

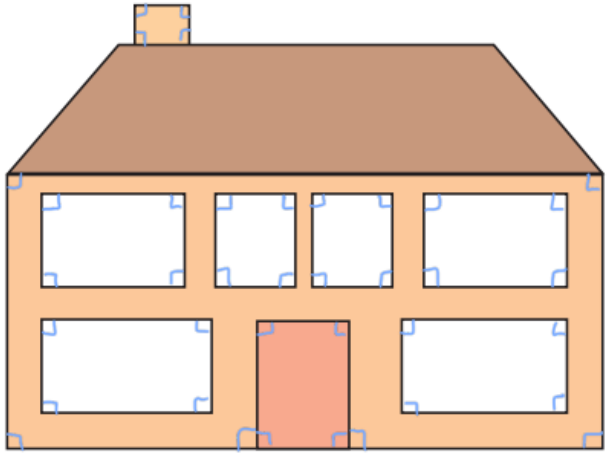


Who do you agree with? Whitney

Draw on the shape to show your thinking.

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

Mark them on the picture.



Lesson 2
Compare angles

https://vimeo.com/427993095 - Link for today's video ☺

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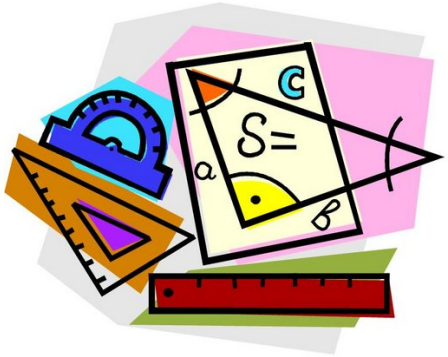


Compare angles

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.

These are all examples of _____ angles.

3 Draw two different obtuse angles.

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)

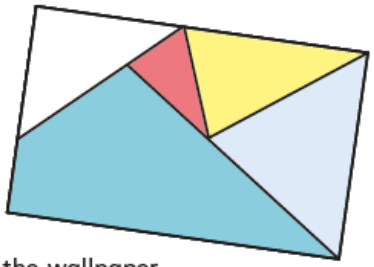
_____

b)

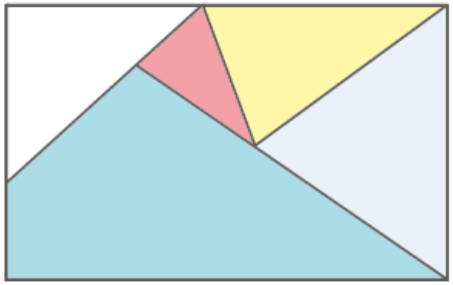
_____

Challenges:

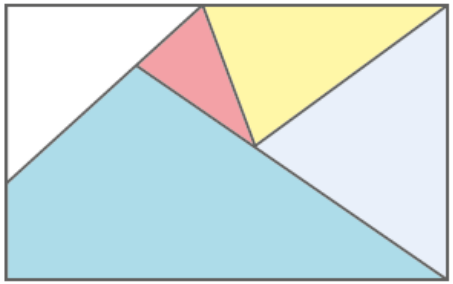
5 Here is a piece of wallpaper.



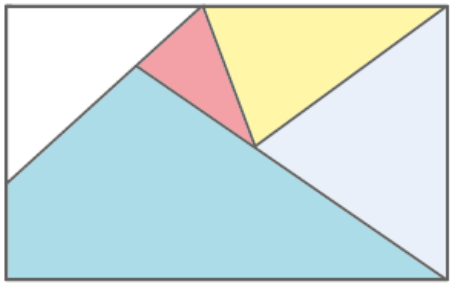
a) Mark two right angles on the wallpaper.



b) Mark four acute angles on the wallpaper.

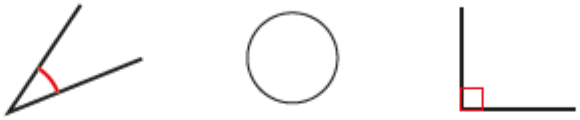


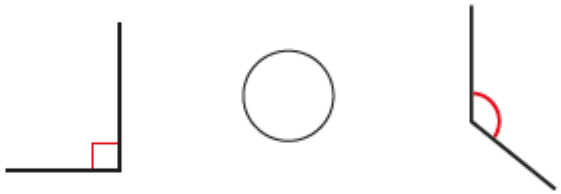
c) Mark two obtuse angles on the wallpaper

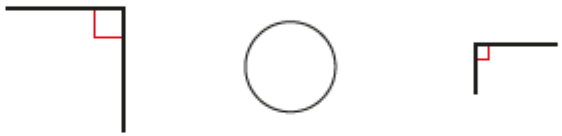


Challenges:

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

a) 

b) 

c) 

ANSWERS

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.

Various answers.

Compare answers with a partner.

Complete the sentence.

These are all examples of acute angles.

3 Draw two different obtuse angles.

Various answers.

Compare answers with a partner.

Complete the sentence.

Obtuse angles are greater than 90 degrees

but less than 180 degrees.

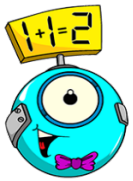
4 Is the angle between the hands of the clock acute or obtuse?

a)

acute

b)

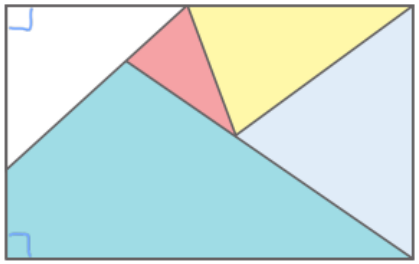
obtuse



5 Here is a piece of wallpaper.

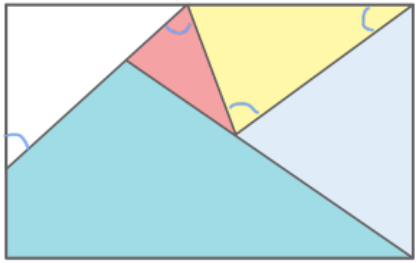
a) Mark two right angles on the wallpaper.

e.g.



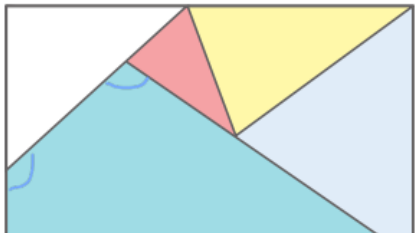
b) Mark four acute angles on the wallpaper.

e.g.



c) Mark two obtuse angles on the wallpaper

e.g.



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

a) 

b) 

c) 

Lesson 3
Horizontal and vertical

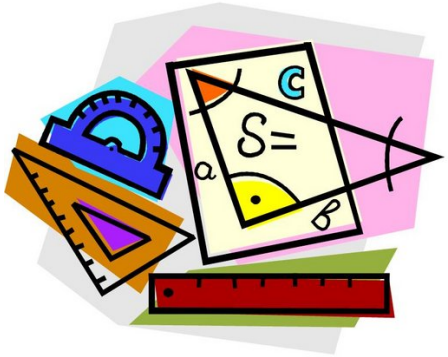
https://vimeo.com/430336963 - Link for today's video ☺

Copy and paste to your browser if it doesn't work.

1. Watch the video clip for today's teaching

2. Complete the questions on the next few pages

3. Also, have a look at BBC Bitesize Daily activities for extra learning if you like:
   https://www.bbc.co.uk/bitesize/dailylessons



Horizontal and vertical

1 Circle the line that is horizontal.

2 Circle the line that is vertical.

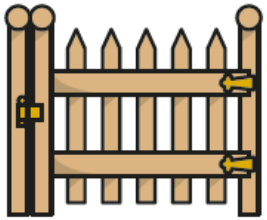
3 Use a ruler to draw the lines.

a) Draw a horizontal line 5 cm long.

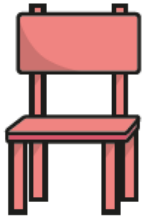
b) Draw a line that is not horizontal or vertical.

c) Draw a vertical line 5 cm long.

4 Tick two horizontal lines on the gate.



5 Tick three vertical lines on the chair.



Challenges:

6 Here are some flags.

a) Circle the flags that have horizontal stripes.




b) Circle the flags that have vertical stripes.

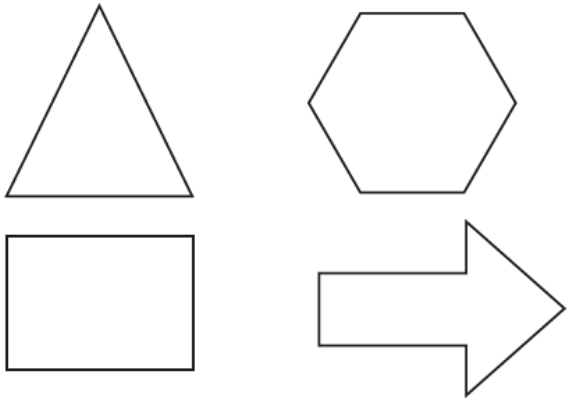



c) Is the statement true or false?

This flag has vertical and horizontal stripes.

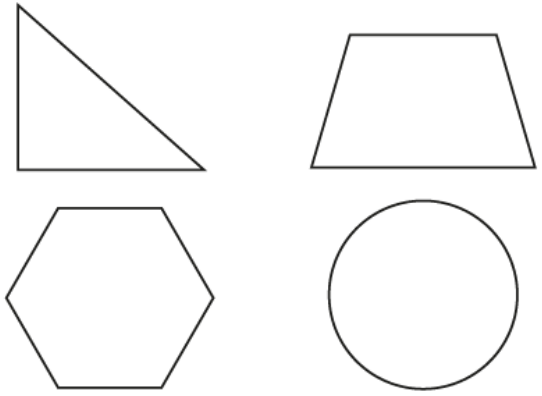
7 Tick the shapes that have a vertical line of symmetry.

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.



ANSWERS

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.

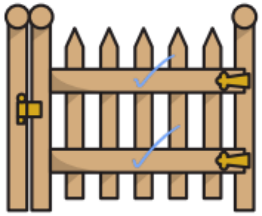
a) Draw a horizontal line 5 cm long.

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

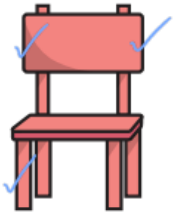
e.g.

c) Draw a vertical line 5 cm long.

4 Tick two horizontal lines on the gate.



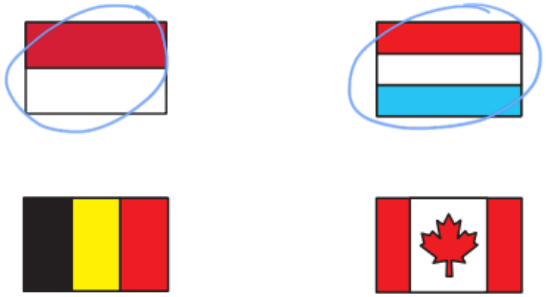
5 Tick three vertical lines on the chair.



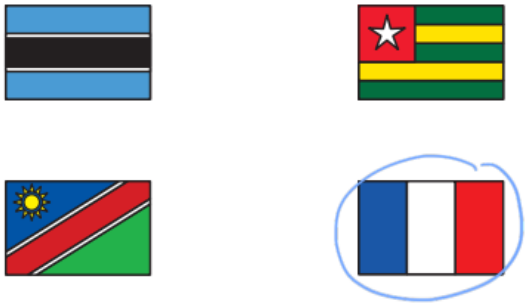
ANSWERS

6 Here are some flags.

a) Circle the flags that have horizontal stripes.



b) Circle the flags that have vertical stripes.



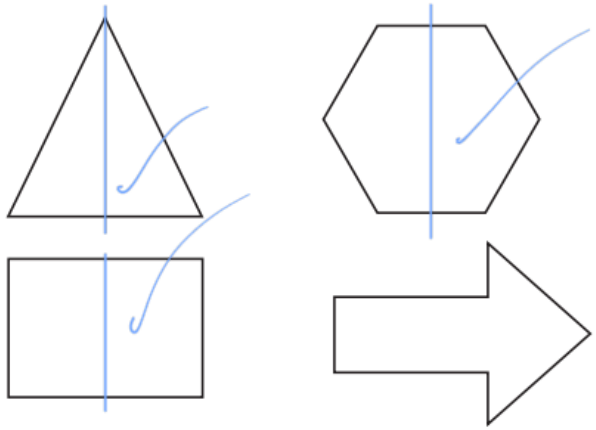
c) Is the statement true or false?

This flag has vertical and horizontal stripes.

false

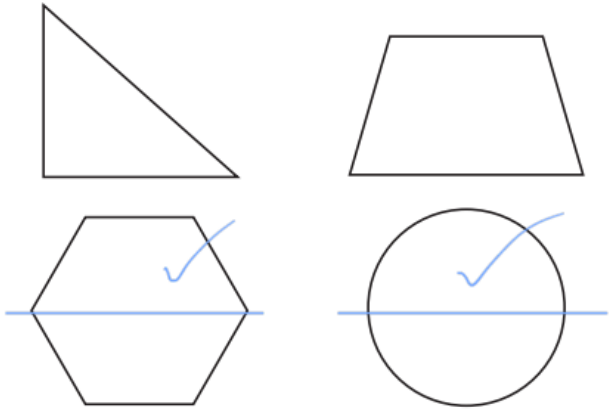
7 Tick the shapes that have a vertical line of symmetry.

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.



Lesson 4
Parallel and perpendicular lines

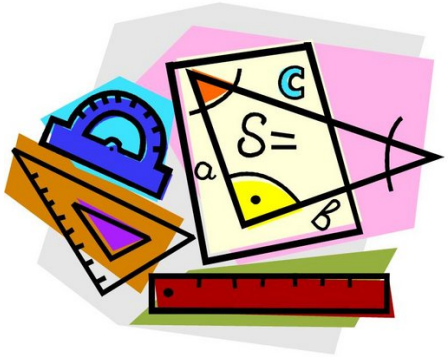
https://vimeo.com/430337089- Link for today's video ☺

Copy and paste it into your browser if it doesnt work.

1. Watch the video clip for today's teaching

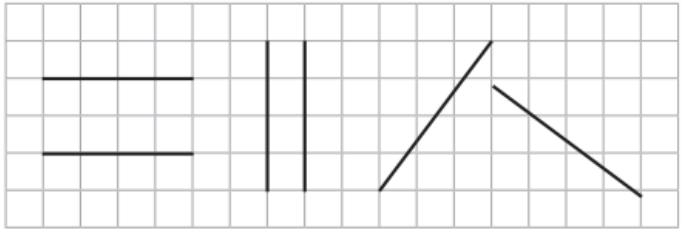
2. Complete the questions on the next few pages

3. Also, have a look at BBC Bitesize Daily activities for extra learning if you like:
   https://www.bbc.co.uk/bitesize/dailylessons



Parallel and perpendicular

1 Tick the pairs of lines that are not parallel.

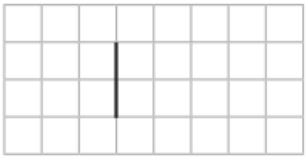


2 Here are two lines.

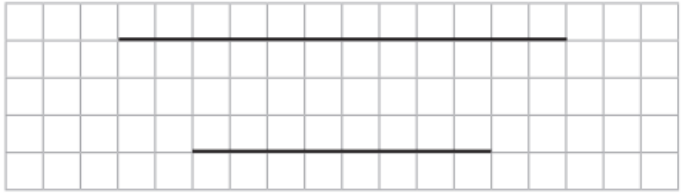
Draw a line that is parallel to each.

a)

b)



3 Amir says that the lines are not parallel because they are different lengths.



Is Amir correct? _____

Why?

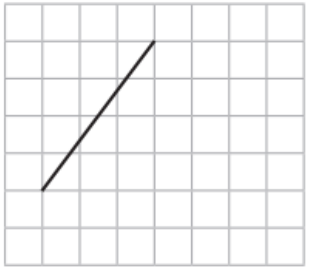
4 **a)** Here is a line. Draw a line that is **not** parallel to it.

b) Here is a line. Draw a line that is parallel to it.

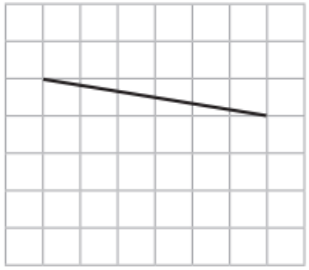
5 Here are two lines.

Draw a line that is parallel to each.

a)



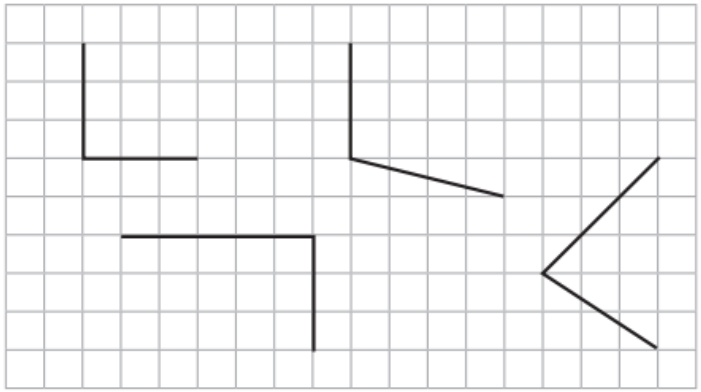
b)



Talk to a partner about how you did it.

Challenges:

6 Tick the perpendicular lines.



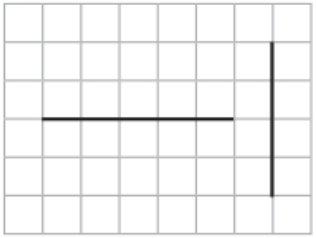
7 Here are two lines. Draw a line that is perpendicular to each.

a)

b)

8 Alex has drawn some lines on grids.

a)

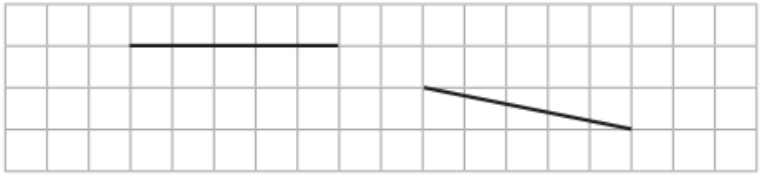


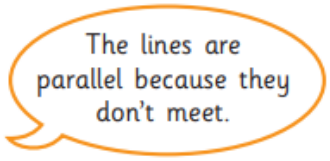
The lines are not perpendicular because they don't meet.

Do you agree with Alex? _____

Challenges:

b)

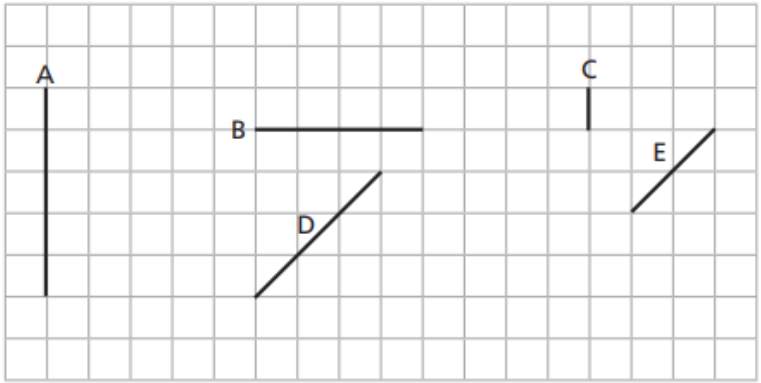




Do you agree with Alex? _____

Talk about your answers with a partner.

9 Five lines are drawn on the grid.



a) Which two pairs of lines are parallel?

_____

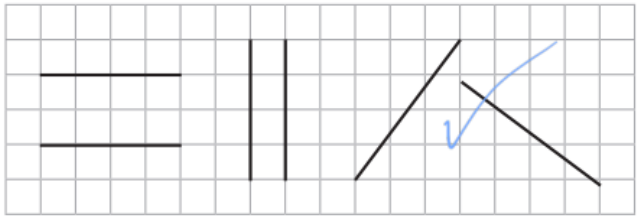
b) Which two pairs of lines are perpendicular?

_____

ANSWERS

Parallel and perpendicular

1 Tick the pairs of lines that are not parallel.

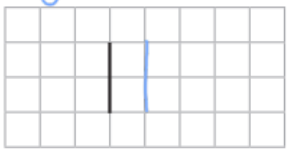


2 Here are two lines.

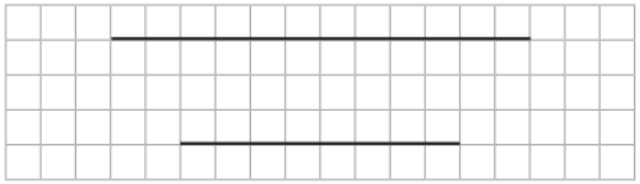
Draw a line that is parallel to each.

a) e.g.

b) e.g.



3 Amir says that the lines are not parallel because they are different lengths.

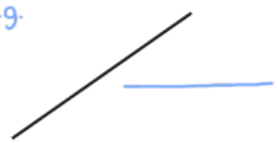


Is Amir correct? No

Why?

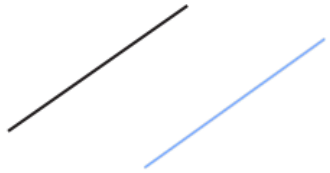
4 **a)** Here is a line. Draw a line that is **not** parallel to it.

e.g.



b) Here is a line. Draw a line that is parallel to it.

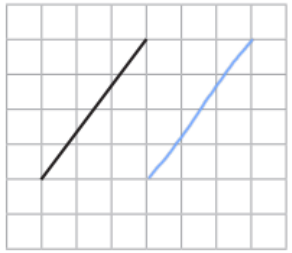
e.g.



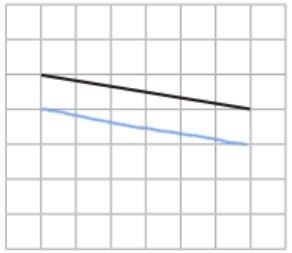
5 Here are two lines.

Draw a line that is parallel to each.

a)



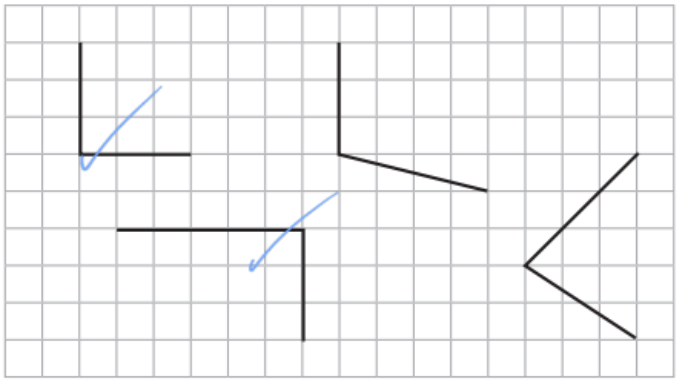
b)



Talk to a partner about how you did it.

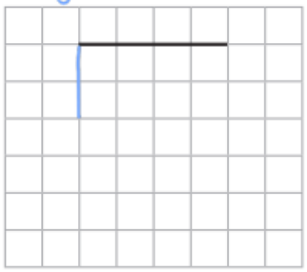
ANSWERS

6 Tick the perpendicular lines.

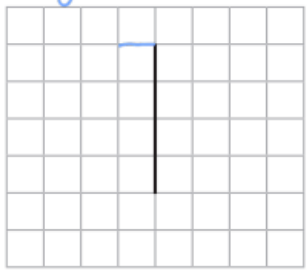


7 Here are two lines. Draw a line that is perpendicular to each.

a) e.g.

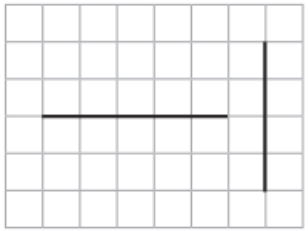


b) e.g.



8 Alex has drawn some lines on grids.

a)

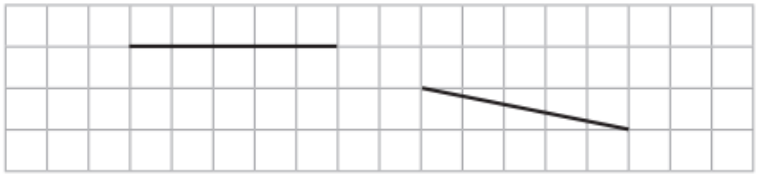


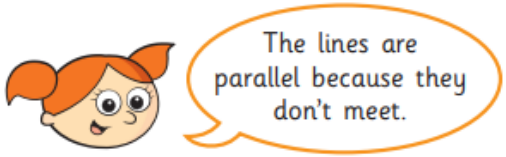
The lines are not perpendicular because they don't meet.

Do you agree with Alex? No

ANSWERS

b)

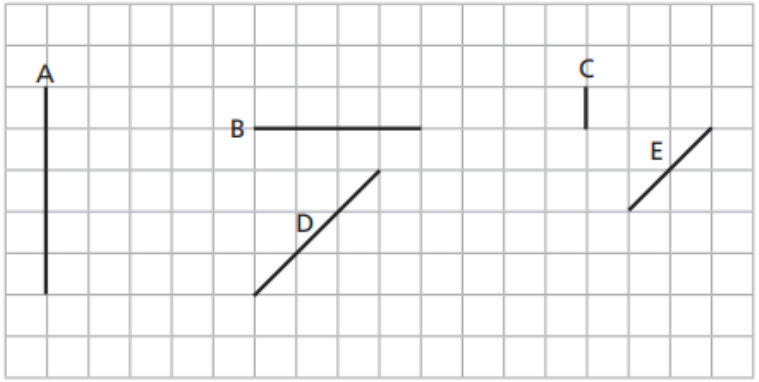




Do you agree with Alex? No

Talk about your answers with a partner.

9 Five lines are drawn on the grid.



a) Which two pairs of lines are parallel?

A and C & D and E

b) Which two pairs of lines are perpendicular?

A and B & B and C

Lesson 5

Happy Friday ☺

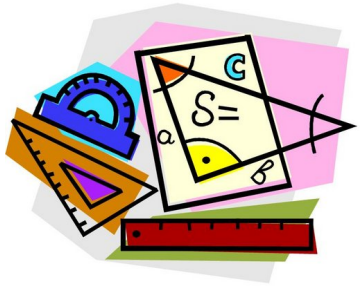
Can you complete the Friday Maths challenge?

https://whiterosemaths.com/homelearning/year-3/

Try questions 1 – 4

Or

Have a go at some of the extra practise sheets on the next few slides to help you with angles and lines.



Useful videos to help you with angles:
Please copy them into your browser if they don't work ☺

Angles:
https://www.bbc.co.uk/bitesize/topics/zb6tyrd
https://www.youtube.com/watch?v=S_p0STXaf9s

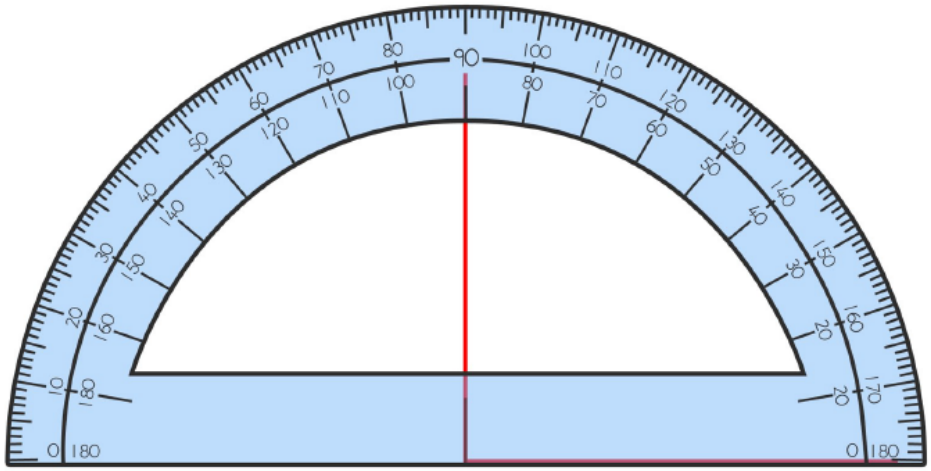
Parallel and perpendicular lines:
https://www.youtube.com/watch?v=AUBVEyzxn7s

Have a look at the activities on Education City for some more help.

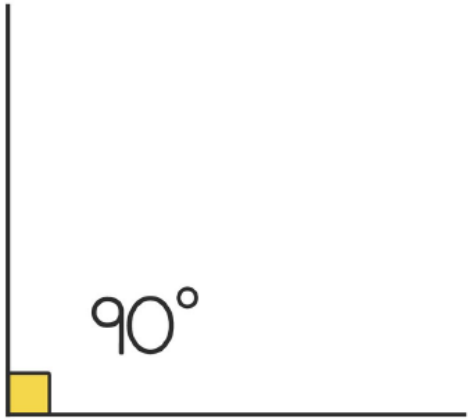
EducationCity.com

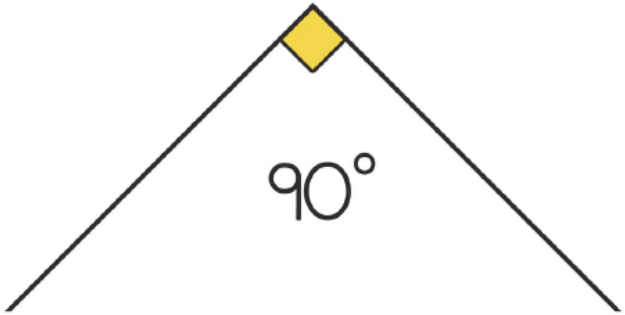
Right-Angle

A right angle is 90°.



These are some examples of right-angles.



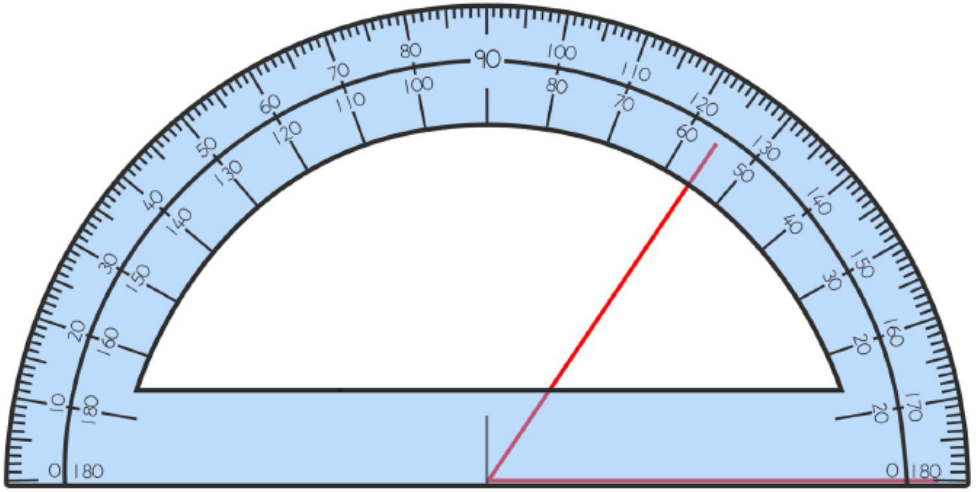


TOP TIPS

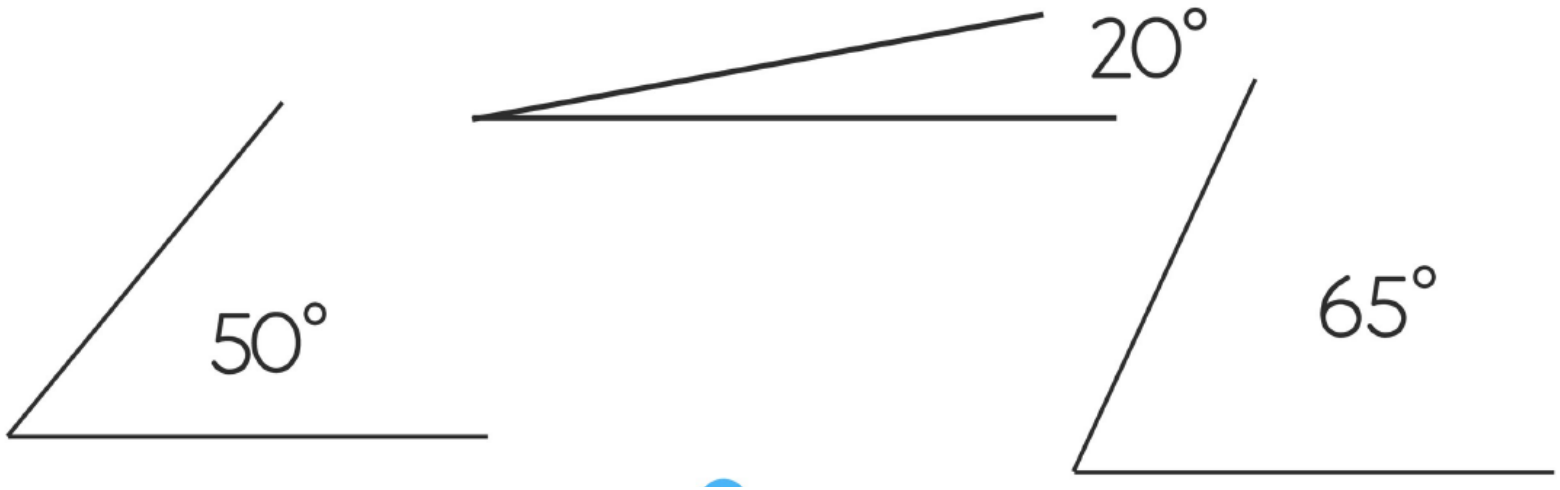
Right angles can be in any orientation (position)

Acute-Angle

An acute angle is less than 90°.

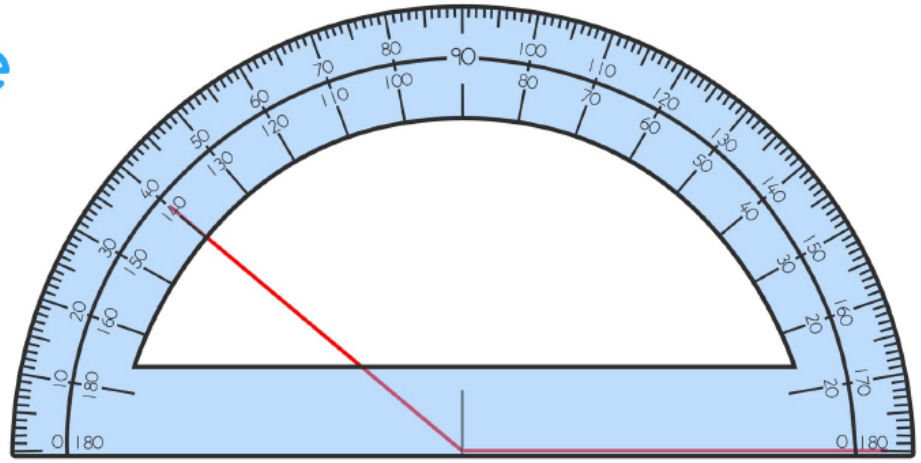


These are some examples of acute - angles.

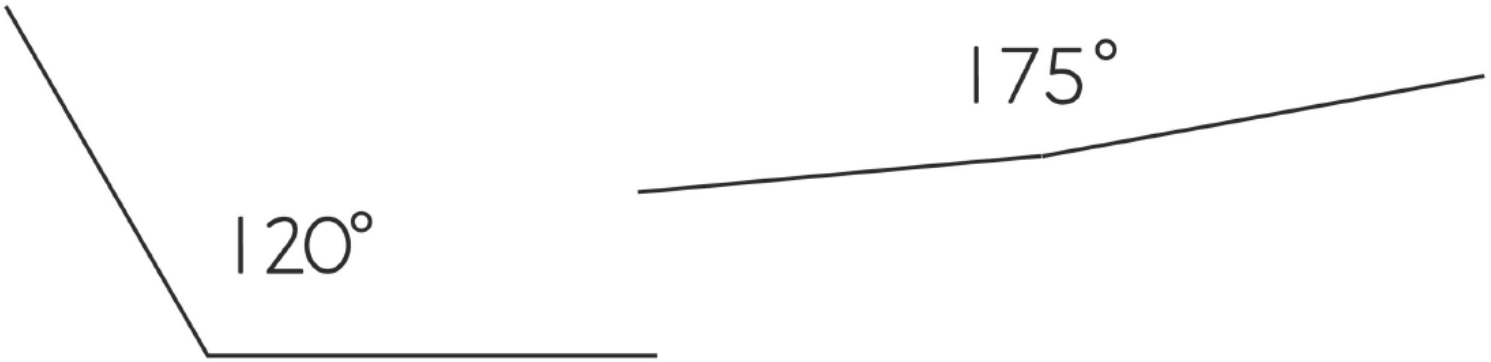


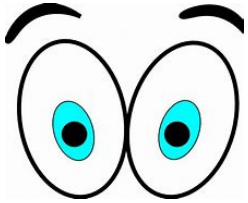
Obtuse-Angle

An obtuse angle is greater than 90° and less than 180°.



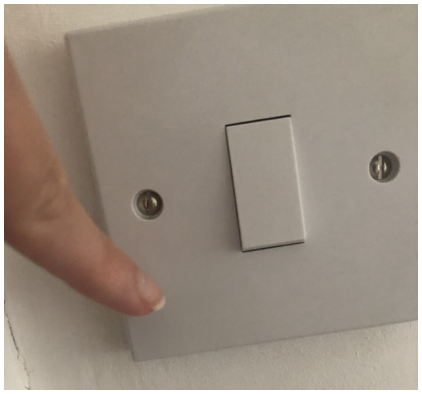
These are some examples of obtuse - angles.



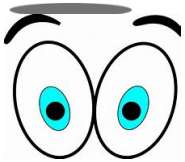


Right angle hunt

Find examples of right angles in your home
You might like to take some photos or draw them into your book/ onto paper.
Here are some of the right angles that I found in my house.
Please send in any pictures if you give these activities a try ☺ I would love to see them.

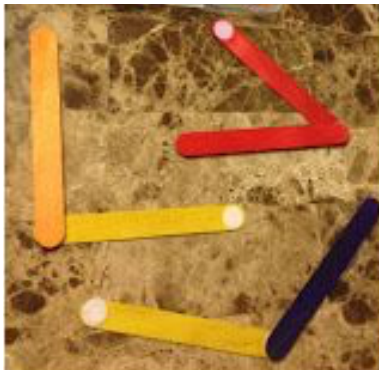


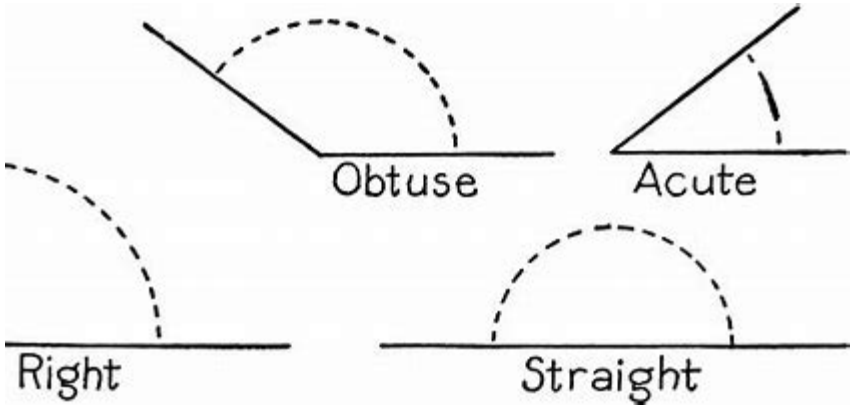
Maybe you could make some right angles using sticks/ items in your house ☺



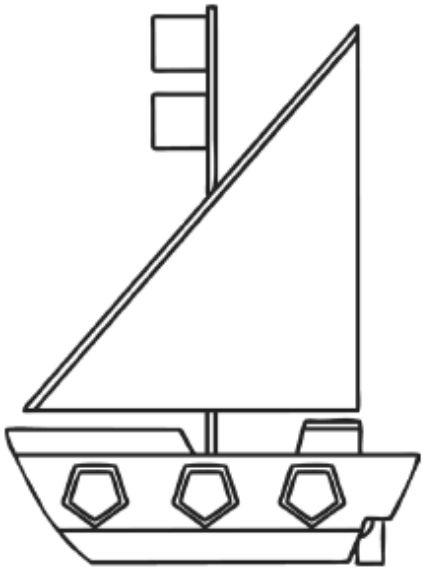
Challenge:
Can you find any examples of angles that are less than 90° (acute) or bigger than 90° (obtuse) in your house/ garden/ on a walk?

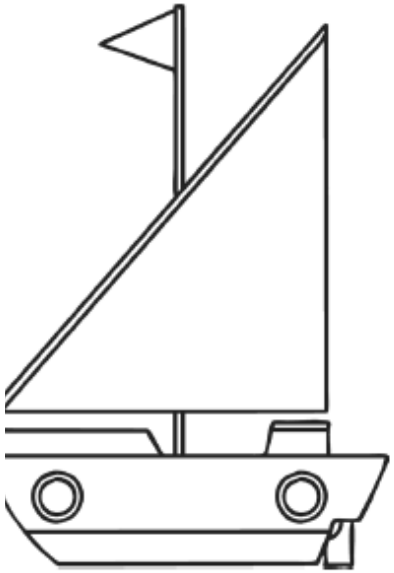
Use the pictures below for some inspiration.

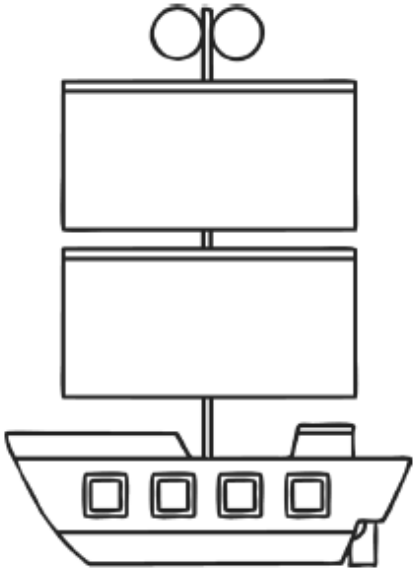




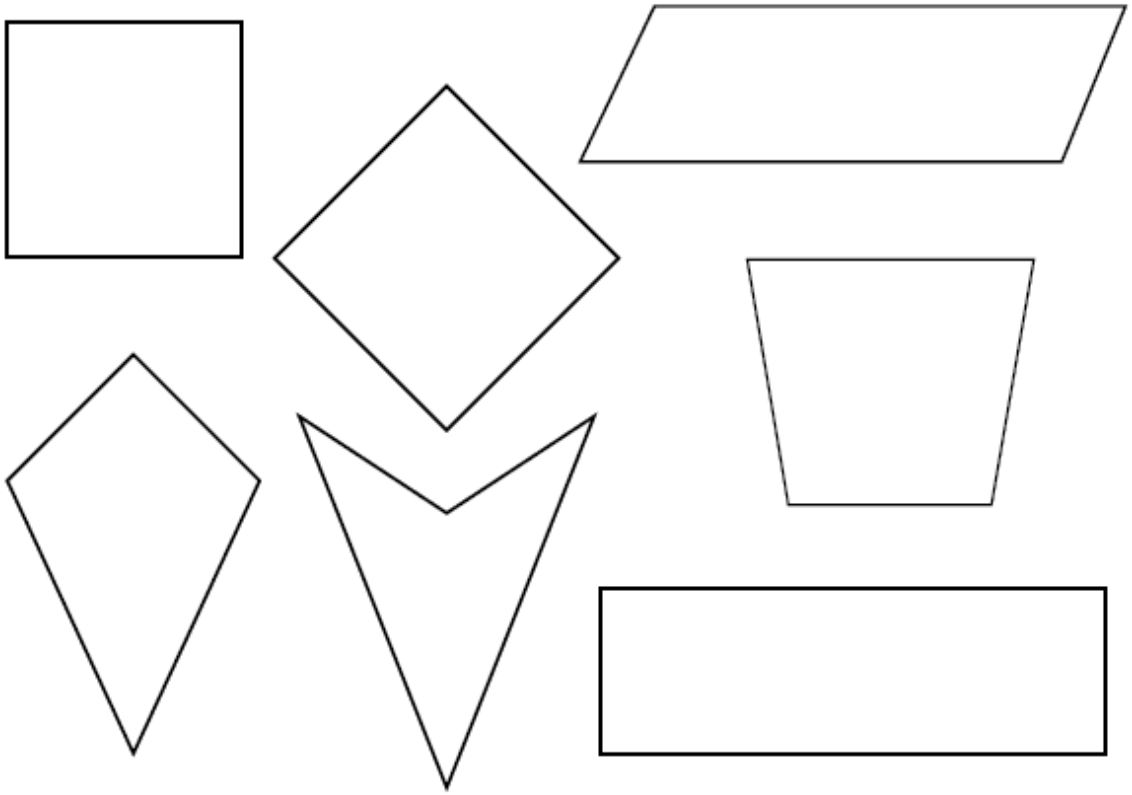
Colour in the angles you can find:
red for right angles, green for acute angles and blue for obtuse angles.







Look at the quadrilaterals and then complete the true or false table.

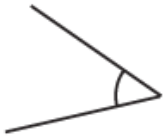


TOP TIPS

A quadrilateral is a 2D shape that has 4 straight sides.

Statement	True	False
All quadrilaterals have 4 right angles.		
All quadrilaterals have at least one right angle.		
All irregular quadrilaterals have no right angles.		

Write the type of angle:

1. 

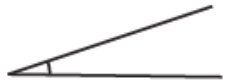
_____

2. 

_____

3. 

_____

4. 

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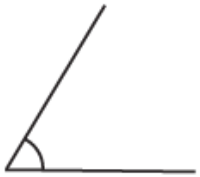
5. 

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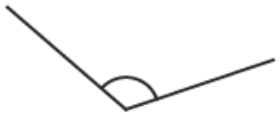
6. 

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7. 

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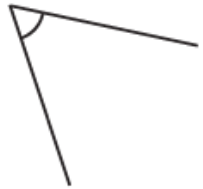
8. 

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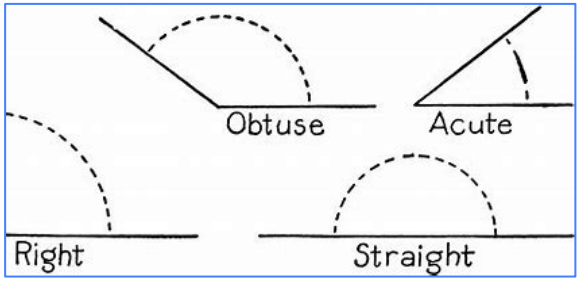
TOP TIPS



Other fun activities to try at home to help you your learning about angles:

Draw the first letter of your name in bubble writing.
Using a ruler, split the letter into sections.
What different angles can you spot?
Can you find examples of right angles, acute angles and obtuse angles?

Find some sticky tape or masking tape (ask an adult or older sibling to help you)
Overlap the tape in different directions.
What different angles can you spot?

Please send in any pictures if you give these activities a try ☺ I would love to see them.

Types of Lines

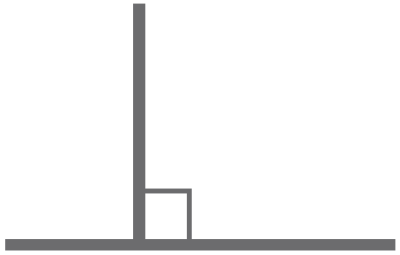
Vertical

Straight line up and down

Horizontal

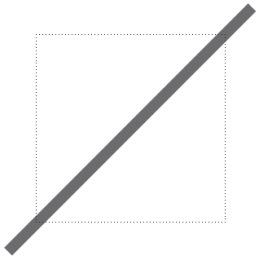
Straight line left and right

Perpendicular



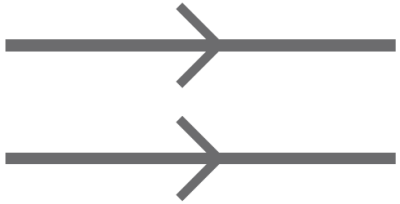
Lines that meet at a right angle (90°)

Diagonal



Straight line corner to corner

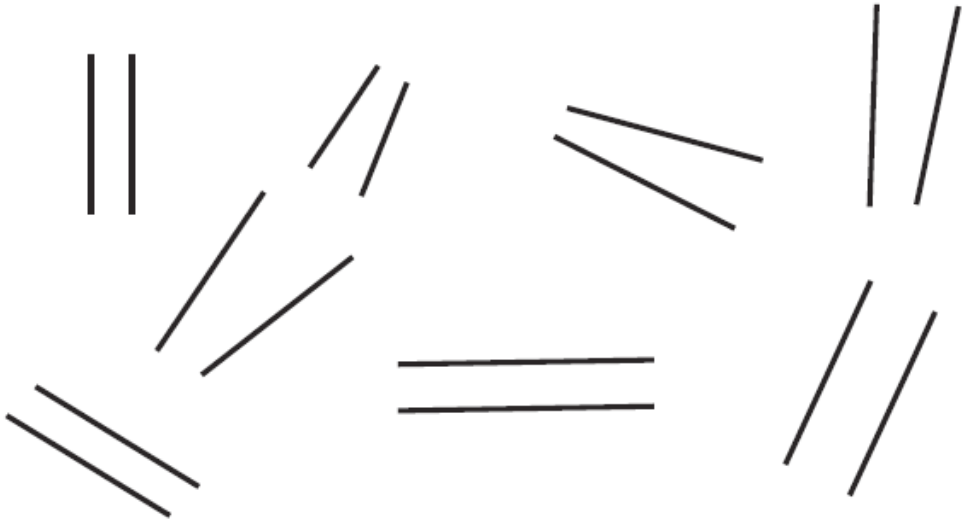
Parallel



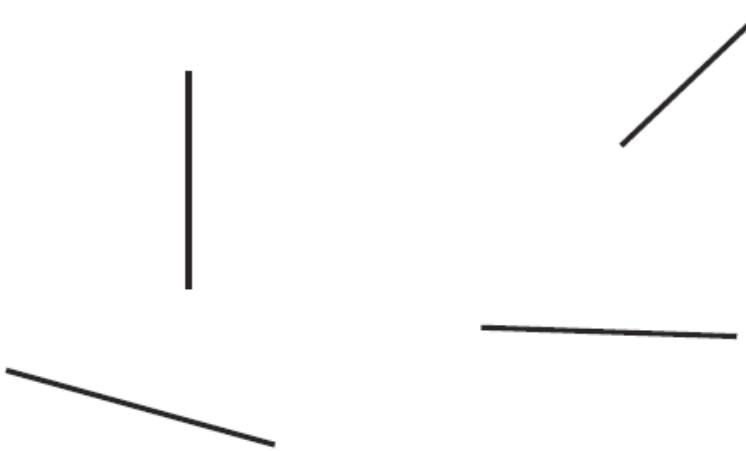
Lines that will never meet and are always the same distance apart.

Identifying Parallel Lines

Can you circle the pairs of parallel lines?



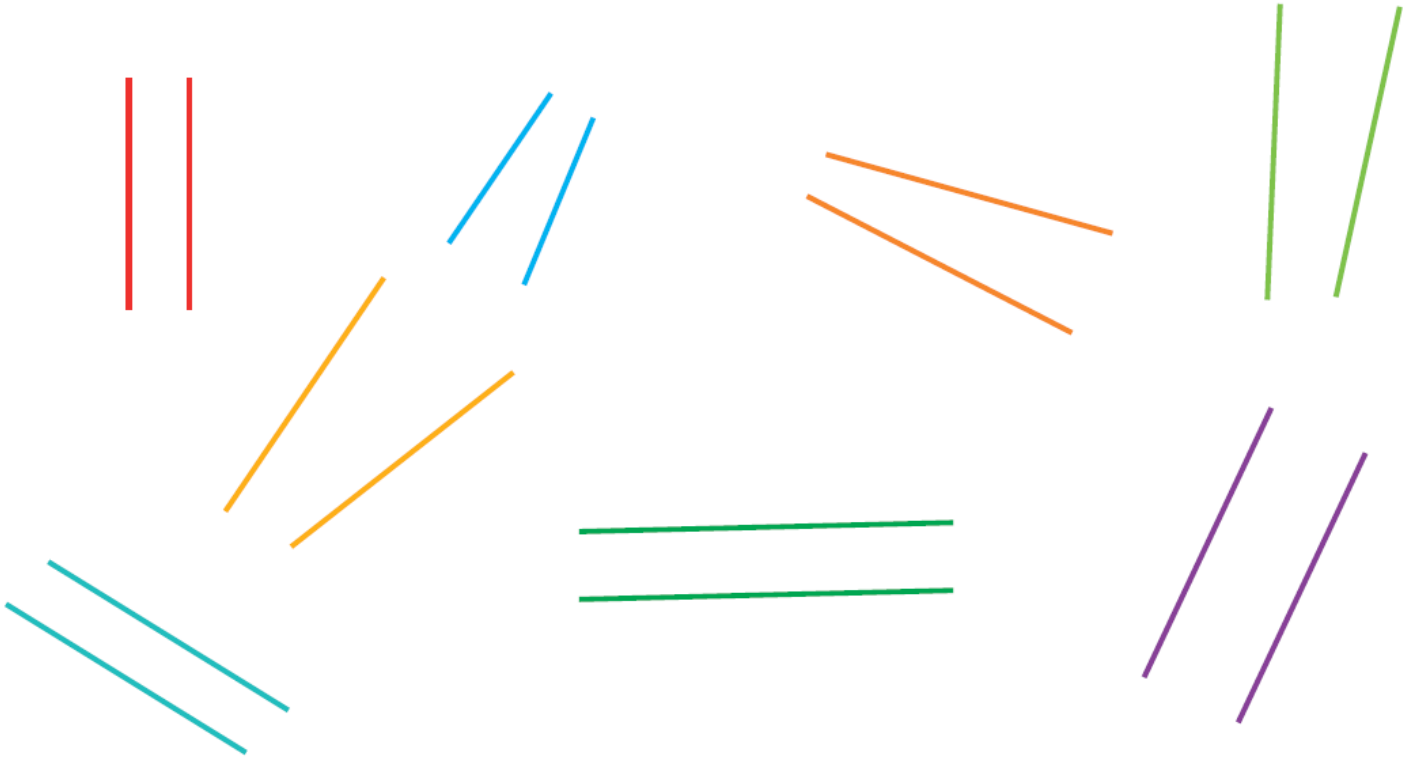
Can you draw lines which are parallel to each of these?



Extra practise tasks:

Parallel Lines

Can you circle the pairs of parallel lines?



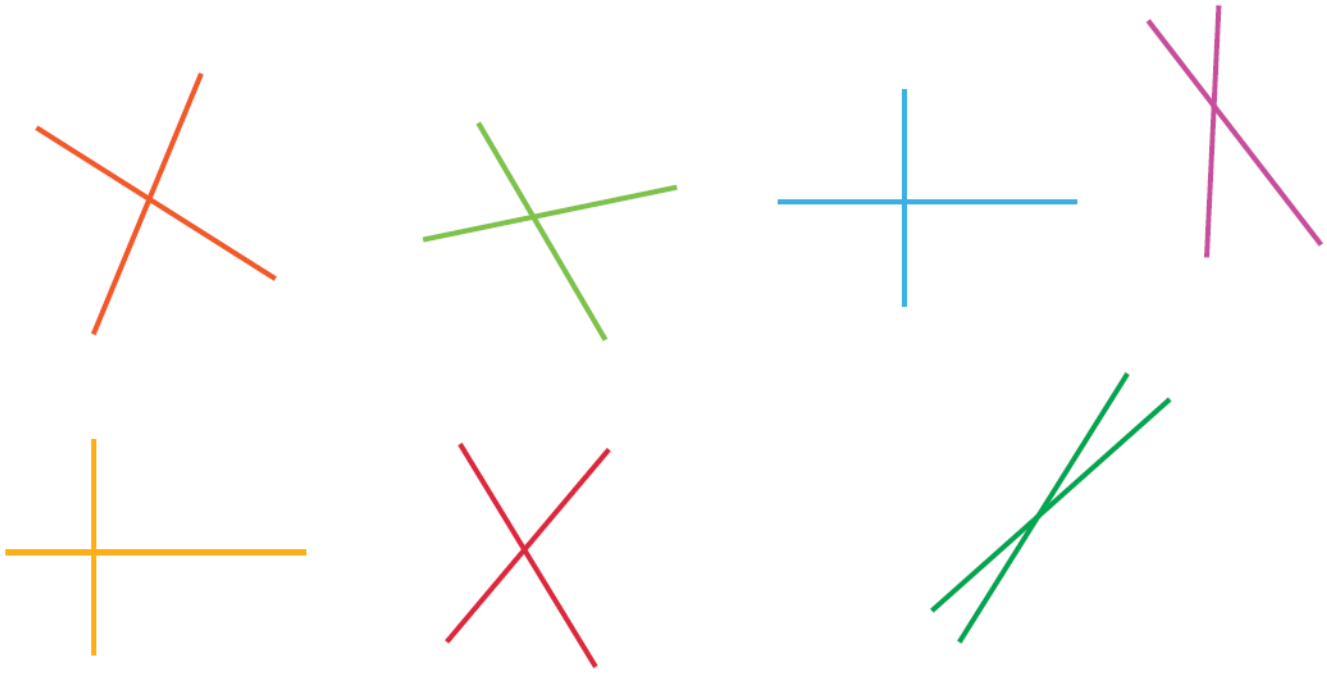
Extra practise tasks:

Can you draw lines which are parallel to each of these?

Extra practise tasks:

Perpendicular Lines

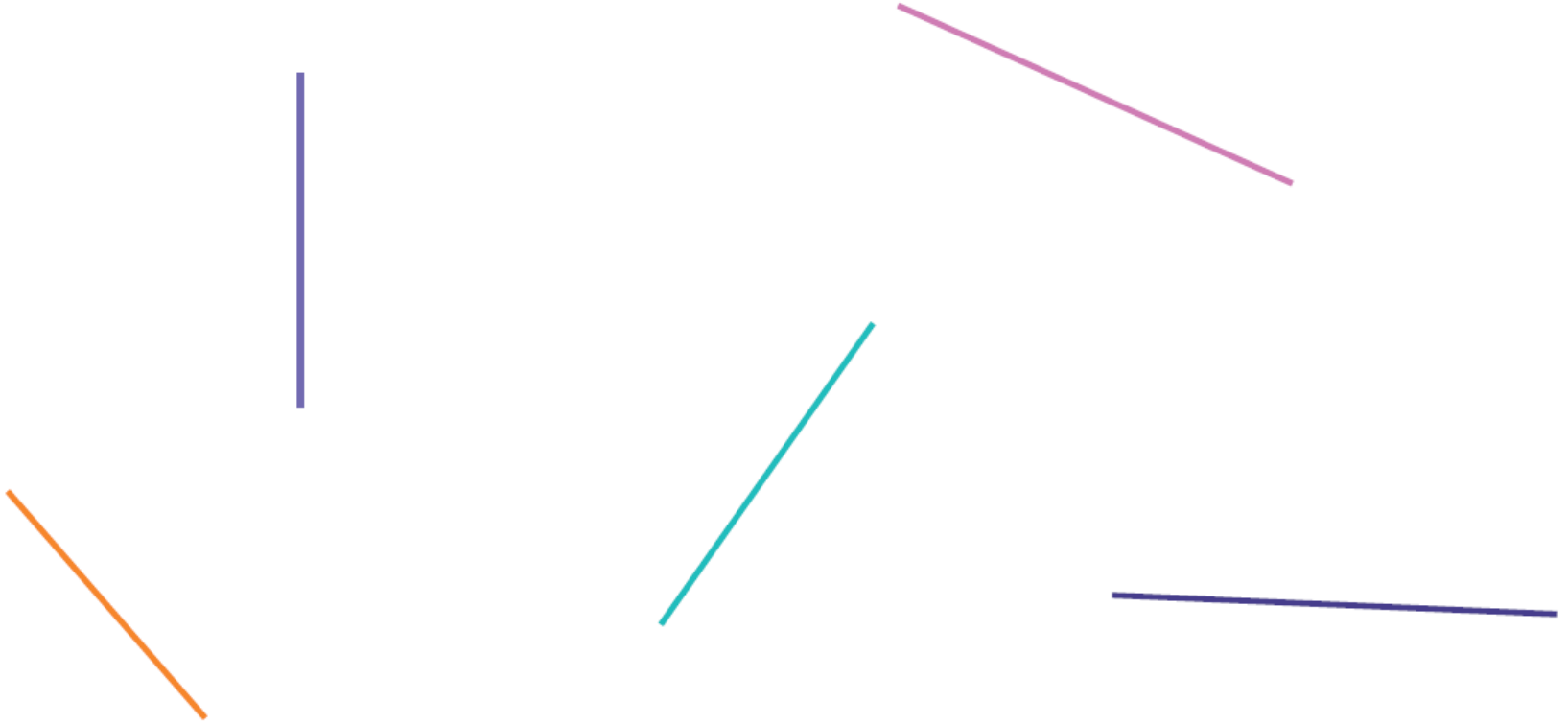
Can you circle the pairs of perpendicular lines?



Can you draw lines which are perpendicular to each of these?

Extra practise tasks:

Can you draw lines which are perpendicular to each of these?



You are all superstars ☺
Thank you for working so hard,
Year 3.

Send in any photos of the work you do to:
info@st-jo-st.dudley.sch.uk

I would love to see what you get up to.