



Aim High... Fly High...

Year 3 Maths Summer term week 9

Week Commencing 6<sup>th</sup> July 2020

Please follow summer term week 9 w/c 22<sup>nd</sup> June. If there are any difficulties you encounter, please send me an email and I will try to help.

This week we would like you to complete these tasks:

Lesson 1 – Fractions assessment

Lesson 2- Right angles in Shapes <https://www.bbc.co.uk/bitesize/articles/zwy3trd>

Lesson 3- Compare angles <https://www.bbc.co.uk/bitesize/articles/z2gcsk7>

Lesson 4- Horizontal and vertical <https://www.bbc.co.uk/bitesize/articles/zxc9ydm>

Lesson 5- Parallel and perpendicular <https://www.bbc.co.uk/bitesize/articles/z64kvwx>

The answers have been uploaded to Starz. I have included the answers to the fractions assessment at the end of this document.

There are links to BBC bitesize extensions next to the lessons above.

Have fun!

Mr Butler

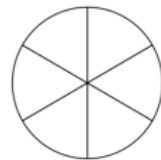
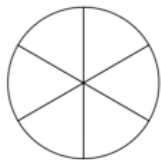
Lesson 1 – Fractions assessment

Year 3

Fractions

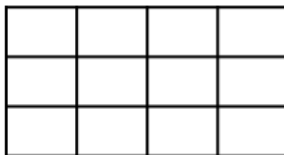
Name \_\_\_\_\_

- 1 Shade  $\frac{2}{6}$  of the circle. Shade  $\frac{1}{3}$  of the circle.



☐ 2 marks

- 2 Shade  $\frac{1}{2}$  of the shape.



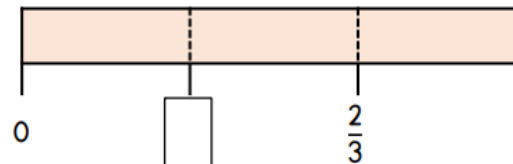
Complete the equivalent fraction.

$$\frac{1}{2} = \frac{\boxed{\phantom{000}}}{12}$$

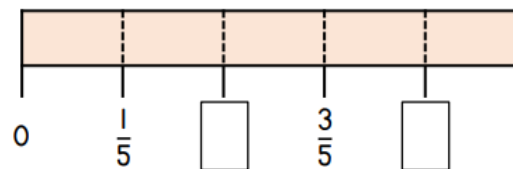
☐ 1 mark

☐ 1 mark

- 3 Complete the missing boxes.



☐ 1 mark



☐ 1 mark

Compare using  $<$ ,  $>$  or  $=$

$$\frac{3}{5} \bigcirc \frac{4}{5}$$

$$\frac{1}{3} \bigcirc \frac{1}{5}$$

☐ 2 marks

- 4 Amy, Zac and Harry are running a race.

Zac has run  $\frac{1}{2}$  of the race.

Amy has run  $\frac{3}{4}$  of the race.

Harry has run  $\frac{1}{4}$  of the race.

Who has run the shortest distance?

Explain your answer.

- 5 Use the ten frame to help you complete the number sentences.

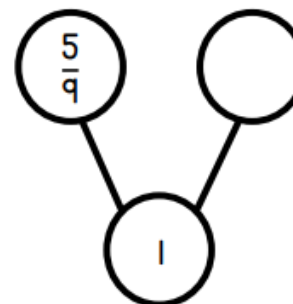
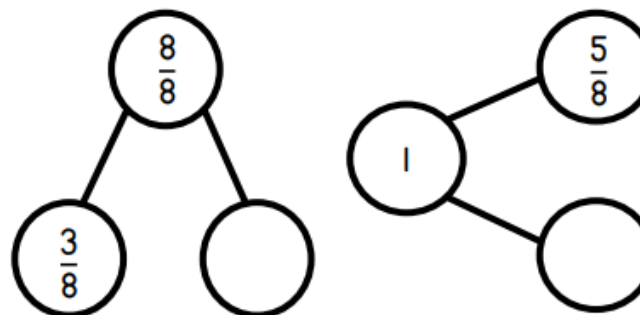

$$\frac{2}{10} + \frac{\square}{10} = \frac{10}{10}$$

$$1 - \frac{2}{10} = \frac{\square}{10}$$

☐  
2 marks

☐  
2 marks

- 6 Complete the part-whole models.



☐  
3 marks

Circle how confident you feel with fractions.

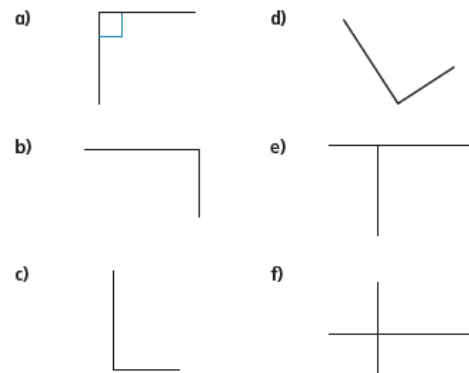
1      2      3      4      5  
Not      Very  
confident      confident

Lesson 2 – Right angles in shapes <https://vimeo.com/430336748>

Right angles in shapes

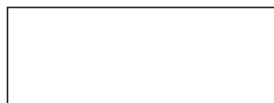
- 1 There is at least one right angle in each picture. Mark the right angles on the pictures.

The first one has been done for you.



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.

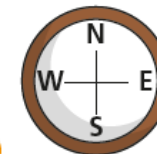
Who do you agree with? \_\_\_\_\_

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.

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.

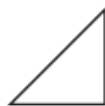
A full turn is equal to  right angles.

6 Draw the right angles on each shape.

a)



c)



b)

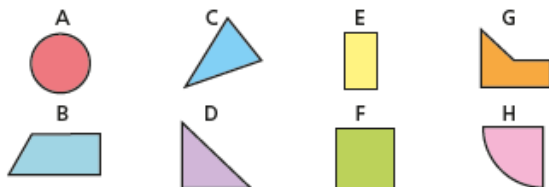


d)



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

Sort the shapes into the table.



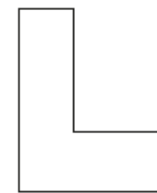
0 right angles	1 right angle	2 right angles	3 right angles	4 right angles

8 Teddy and Whitney are identifying right angles.



Teddy

I can see five right angles.



I can see six!

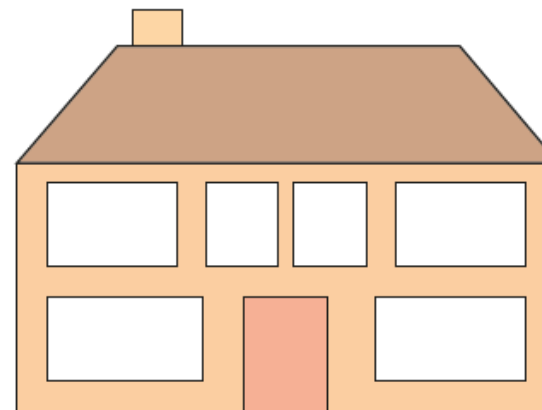
Whitney

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.

# Lesson 3 – Compare angles <https://vimeo.com/430336836>

## Compare angles

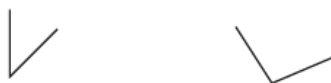


1 Here are some angles.

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)



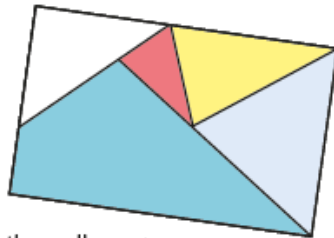
\_\_\_\_\_

b)

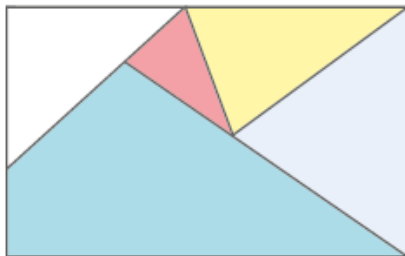


\_\_\_\_\_

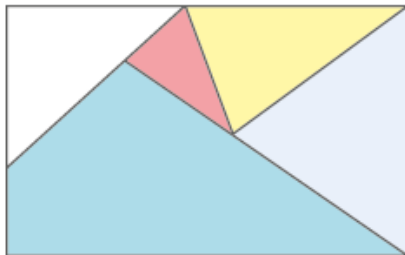
- 5 Here is a piece of wallpaper.



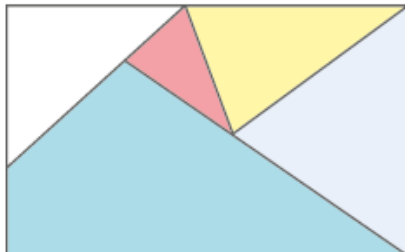
- a) Mark two right angles on the wallpaper.



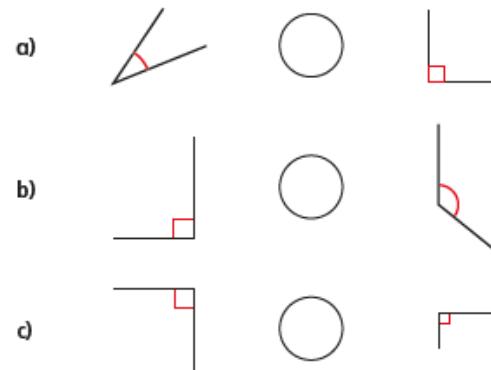
- b) Mark four acute angles on the wallpaper.



- c) Mark two obtuse angles on the wallpaper.



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



- 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?



Lesson 4 – Horizontal and vertical <https://vimeo.com/430336963>

## 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.

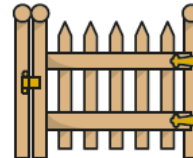
a) Draw a horizontal line 5 cm long.

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.





6 Here are some flags.

a) Circle the flags that have horizontal stripes.



b) Circle the flags that have vertical stripes.

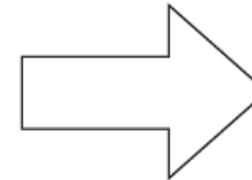


c) Is the statement true or false?

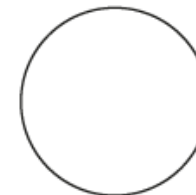
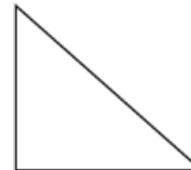
This flag has vertical and horizontal stripes.



7 Tick the shapes that have a vertical line of symmetry.  
Draw on the shapes to show the line of symmetry.



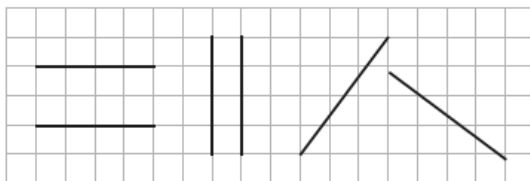
8 Tick the shapes that have a horizontal line of symmetry.  
Draw on the shapes to show the line of symmetry.



# Lesson 5 – Parallel and perpendicular <https://vimeo.com/430337089>

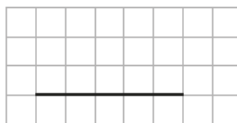
## Parallel and perpendicular

- 1 Tick the pairs of lines that are not parallel.

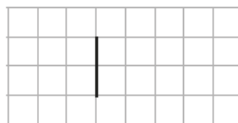


- 2 Here are two lines.  
Draw a line that is parallel to each.

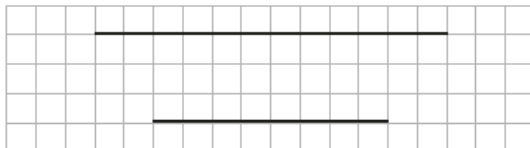
a)



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)

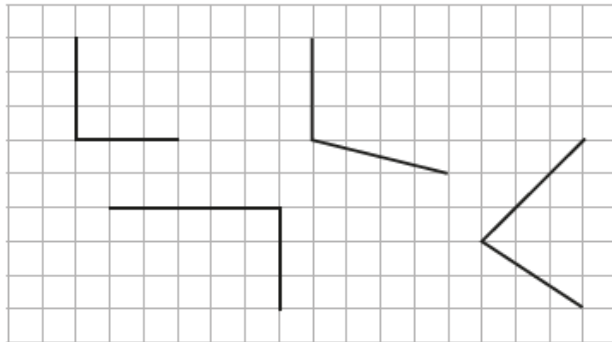


b)



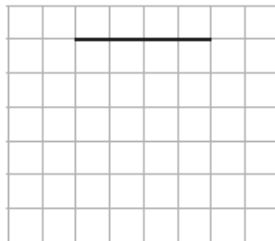
Talk to a partner about how you did it.

6 Tick the perpendicular lines.



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

a)

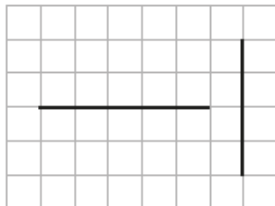


b)



8 Alex has drawn some lines on grids.

a)



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

Do you agree with Alex? \_\_\_\_\_

b)

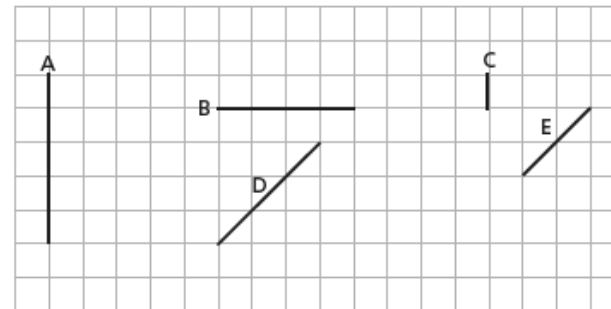


The lines are parallel because they don't meet.

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?


\_\_\_\_\_

Assessment answers

**Year 3**  
**Fractions**

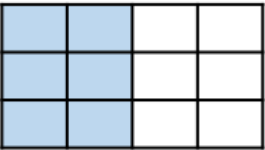
Name \_\_\_\_\_

**1** Shade  $\frac{2}{6}$  of the circle. Shade  $\frac{1}{3}$  of the circle.



☐ 2 marks

**2** Shade  $\frac{1}{2}$  of the shape.



Complete the equivalent fraction.

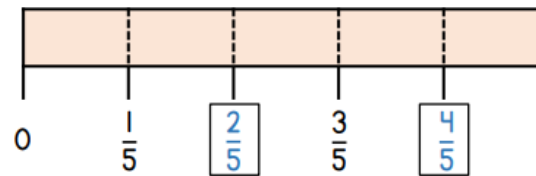
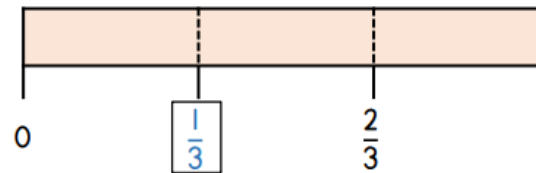
$\frac{1}{2} = \frac{6}{12}$

☐ 1 mark

☐ 1 mark

White Rose Maths

**3** Complete the missing boxes.



Compare using  $<$ ,  $>$  or  $=$

$\frac{3}{5} < \frac{4}{5}$

$\frac{1}{3} > \frac{1}{5}$

☐ 2 marks

- 4 Amy, Zac and Harry are running a race.

Zac has run  $\frac{1}{2}$  of the race.

Amy has run  $\frac{3}{4}$  of the race.

Harry has run  $\frac{1}{4}$  of the race.

Who has run the shortest distance?

Explain your answer.

Harry because  $\frac{1}{4}$  is shorter than  $\frac{1}{2}$  and  $\frac{3}{4}$

Award one mark for Harry and one mark for a reasonable explanation.

- 5 Use the ten frame to help you complete the number sentences.



$$\frac{2}{10} + \frac{8}{10} = \frac{10}{10}$$

$$1 - \frac{2}{10} = \frac{8}{10}$$

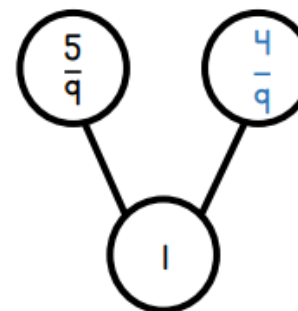
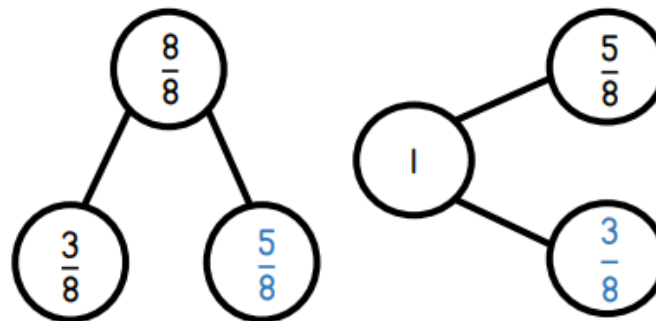


2 marks



2 marks

- 6 Complete the part-whole models.



3 marks

Circle how confident you feel with fractions.

1

2

3

4

5

Not  
confident

Very  
confident