

## Year 3 Maths Week Commencing 4.5.20

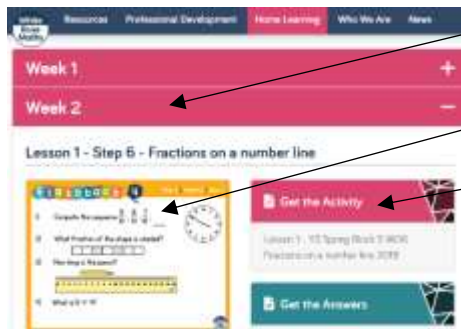
On <https://login.mymaths.co.uk/> you should find your child has been set a daily my maths activity, in the same way that their my maths homework was set previously. If you have missed any, they can still be completed by clicking on the activity even if they say 'overdue'.

Please also spend time practising times tables on <https://trockstars.com/>

Logins for both of these sites are in your child's planner

For more daily maths activities see below;

If you have internet access, go to <https://whiterosemaths.com/homelearning/year-3/>



Click on Summer Term Week 1, there is a short explanatory clip that explains the topic for the week.

Watch this before moving to the activity to complete.

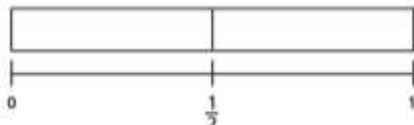
Ideally, print out the activity, otherwise just answer questions from the screen.

Monday – Summer Term Week 1 Lesson 1 Clip and Activity below;

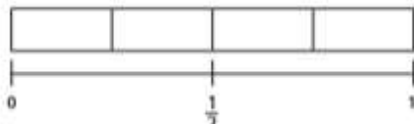
### Equivalent fractions (2)

1 Shade the bar models to represent the fractions.

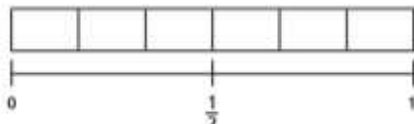
a) Shade  $\frac{1}{2}$  of the bar model.



b) Shade  $\frac{2}{4}$  of the bar model.



c) Shade  $\frac{3}{6}$  of the bar model.



d) What do you notice?

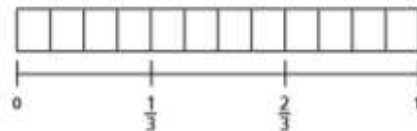
e) Write another fraction that is equivalent to  $\frac{1}{2}$

2 Shade  $\frac{2}{3}$  of each bar model.

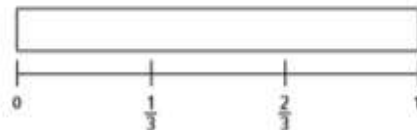
a)



b)



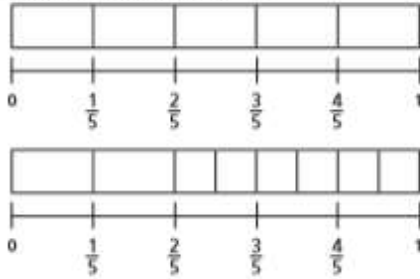
c)



d) Use your answers to parts a), b) and c) to complete the equivalent fractions.

$$\frac{2}{3} = \frac{\square}{6} = \frac{8}{\square} = \frac{\square}{15}$$

3 Mo is finding equivalent fractions.

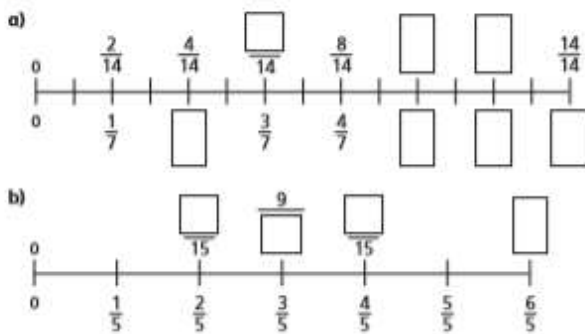


$\frac{6}{8}$  is equivalent to  $\frac{4}{5}$

Do you agree with Mo? \_\_\_\_\_  
Explain your answer.



4 Find the missing numbers.



5 Here is a number line.



a) What fraction is each shape pointing to?

$\triangle = \square$        $\square = \square$

b) A circle is halfway between the triangle and the square.

Draw the circle on the number line.

d)

The circle is pointing to  $\frac{9}{21}$

Do you agree with Eva? \_\_\_\_\_

Show how you worked this out.

d) Write three equivalent fractions for each shape.

$\triangle$   $\square$   $\square$   $\square$        $\circ$   $\square$   $\square$   $\square$

$\square$   $\square$   $\square$

Compare answers with a partner.

Tuesday Summer Term Week 1 Lesson 2 Clip and Activity below;

# Equivalent fractions (3)

1 Shade the shapes to help you complete the equivalent fractions.

a)  $\frac{1}{3} = \frac{\square}{\square}$

b)  $\frac{1}{2} = \frac{\square}{\square}$

c)  $\frac{3}{4} = \frac{\square}{\square}$

d)  $\frac{3}{4} = \frac{\square}{\square}$



4 Use the fraction wall to decide whether the fractions are equivalent or not.

$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

Complete the sentences using **is** or **is not**.

a)  $\frac{1}{2}$  \_\_\_\_\_ equivalent to  $\frac{2}{4}$

b)  $\frac{1}{4}$  \_\_\_\_\_ equivalent to  $\frac{2}{10}$

c)  $\frac{1}{2}$  \_\_\_\_\_ equivalent to  $\frac{5}{10}$

d)  $\frac{3}{10}$  \_\_\_\_\_ equivalent to  $\frac{2}{5}$

e)  $\frac{4}{5}$  \_\_\_\_\_ equivalent to  $\frac{8}{10}$

f)  $\frac{3}{4}$  \_\_\_\_\_ equivalent to  $\frac{4}{5}$

Write some sentences of your own and ask a partner to fill in the gaps.



2 Use the fraction wall to complete the equivalent fractions.

$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$	
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$

a)  $\frac{1}{3} = \frac{\square}{6}$

d)  $\frac{2}{3} = \frac{6}{\square}$

b)  $\frac{1}{3} = \frac{\square}{9}$

e)  $\frac{4}{6} = \frac{6}{\square}$

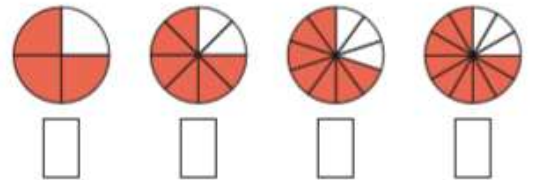
c)  $\frac{2}{3} = \frac{4}{\square}$

f)  $\frac{1}{3} = \frac{\square}{6} = \frac{\square}{9}$

3 Draw a picture to show that one quarter is equivalent to two eighths.



5 a) What fraction of each shape is shaded?



b) Use the fractions in part a) to complete the sentences.

$\frac{3}{4}$  is equivalent to  $\frac{\square}{\square}$

$\frac{6}{8}$  is equivalent to  $\frac{\square}{\square}$

$\frac{8}{10}$  is not equivalent to  $\frac{\square}{\square}$

$\frac{9}{12}$  is not equivalent to  $\frac{\square}{\square}$

Compare answers with a partner.

6 The bar model represents  $\frac{1}{2}$

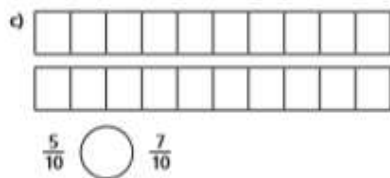
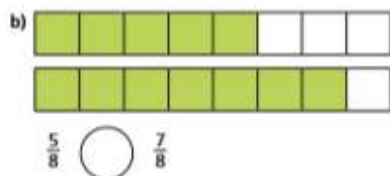
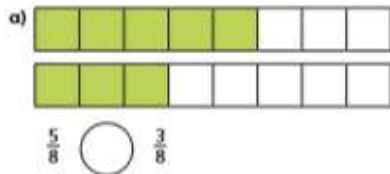
Write as many equivalent fractions as you can.

What is the same about all the fractions you have written?

## Compare fractions



- 1 Write  $<$ ,  $>$  or  $=$  to compare the fractions.  
Use the bar models to help you.



- 4 What could the missing numerators and denominators be?  
Give three examples for each.

a)  $\frac{1}{5} < \frac{\square}{5}$        $\frac{1}{5} < \frac{\square}{5}$        $\frac{1}{5} < \frac{\square}{5}$

b)  $\frac{1}{5} < \frac{1}{\square}$        $\frac{1}{5} < \frac{1}{\square}$        $\frac{1}{5} < \frac{1}{\square}$

- 5 Jack is comparing fractions.

$\frac{1}{8}$  is greater than  $\frac{1}{4}$   
because 8 is greater than 4

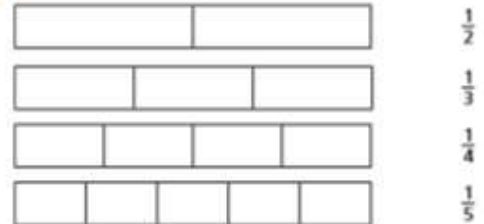


Draw bar models to show that Jack is wrong.

- 2 Write  $<$ ,  $>$  or  $=$  to compare the fractions.

a)  $\frac{1}{5}$  ○  $\frac{3}{5}$       d)  $\frac{6}{7}$  ○  $\frac{2}{7}$   
b)  $\frac{2}{5}$  ○  $\frac{2}{5}$       e)  $\frac{6}{13}$  ○  $\frac{12}{13}$   
c)  $\frac{2}{7}$  ○  $\frac{6}{7}$       f)  $\frac{13}{15}$  ○  $\frac{13}{15}$

- 3 Here are some bar models.



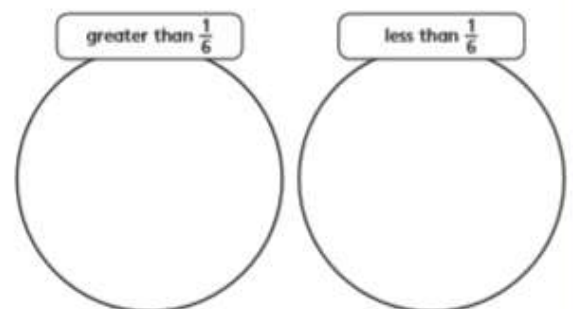
- a) Shade the bar models to represent the fractions.

- b) Write  $<$  or  $>$  to compare the fractions.

Use the bar models to help you.

$\frac{1}{2}$  ○  $\frac{1}{3}$        $\frac{1}{4}$  ○  $\frac{1}{3}$        $\frac{1}{5}$  ○  $\frac{1}{3}$   
 $\frac{1}{3}$  ○  $\frac{1}{2}$        $\frac{1}{4}$  ○  $\frac{1}{5}$        $\frac{1}{5}$  ○  $\frac{1}{2}$

- 6 Sort the fractions into the circles.



- 7 Complete the sentences using the word bank.

numerator    denominator    greater    smaller

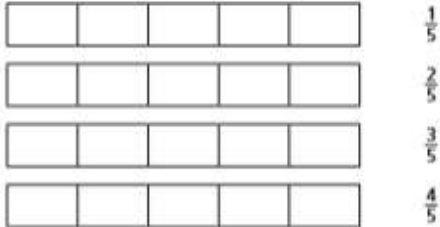
a) When fractions have the same denominator, the greater the \_\_\_\_\_, the \_\_\_\_\_ the fraction.

b) When fractions have the same numerator, the greater the \_\_\_\_\_, the \_\_\_\_\_ the fraction.

## Order fractions



1 a) Shade the bar models to represent the fractions.



b) What do you notice?

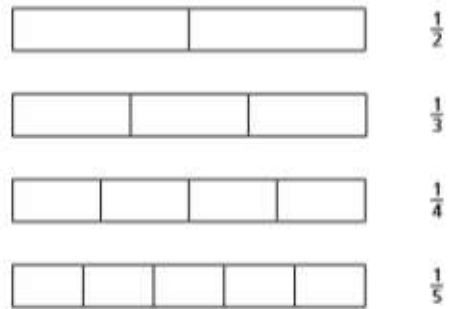
c) Complete the sentence.

When fractions have the same \_\_\_\_\_, the \_\_\_\_\_ the \_\_\_\_\_ the \_\_\_\_\_ the fraction.

2 Write the fractions in order, starting with the smallest.

$\frac{1}{9}$	$\frac{8}{9}$	$\frac{4}{9}$	$\frac{2}{9}$	$\frac{7}{9}$
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="smallest"/>		<input type="text" value="greatest"/>		

3 a) Shade the bar models to represent the fractions.



b) What do you notice?

c) Complete the sentence.

When fractions have the same \_\_\_\_\_, the \_\_\_\_\_ the \_\_\_\_\_ the \_\_\_\_\_ the fraction.

4 Write the fractions in order, starting with the greatest.

$\frac{1}{9}$	$\frac{1}{3}$	$\frac{1}{7}$	$\frac{1}{2}$	$\frac{1}{11}$
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="greatest"/>		<input type="text" value="smallest"/>		

5 Tommy and Dora are ordering fractions.

$$\frac{1}{5} \quad \frac{4}{15} \quad \frac{2}{3} \quad \frac{7}{15}$$



Tommy

I cannot order these fractions because the numerators and denominators are different.

I think I can use equivalent fractions to help me.



Dora

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

Talk about it with a partner.

6 a) Complete the equivalent fractions.

$$\frac{3}{5} = \frac{6}{\square} \quad \frac{2}{9} = \frac{6}{\square} \quad \frac{1}{7} = \frac{6}{\square}$$

b) Write the fractions in order, starting with the greatest.

$$\frac{6}{9} \quad \frac{3}{5} \quad \frac{1}{7} \quad \frac{2}{9}$$

$\square$     $\square$     $\square$     $\square$

greatest

smallest

7 Dexter and Alex are ordering fractions from smallest to greatest.

$$\frac{1}{7} \quad \frac{2}{21} \quad \frac{4}{35} \quad \frac{2}{7}$$

a)



Dexter

I am going to make the numerators the same.

Use Dexter's method to put the fractions in order.

b)

I am going to make the denominators the same.



Alex

Use Alex's method to put the fractions in order.

c) Which method do you prefer? Talk about it with a partner.

Friday Summer Term Week 1 Lesson 5 Clip and Activity below;

### Challenge 1

Can you work out the values of each shape?

$$\star + \star = 20$$

$$\heartsuit - \star = 7$$

$$\heartsuit - \heartsuit = \blacktriangle$$

### Challenge 2

Tom has six 10p coins and three 5p coins. He buys an apple for 59p and two pencils.

He has no money left. How much does a pencil cost?



### Challenge 3

Here are some digit cards.



Amir and Donna each make a three-digit number using all the cards.

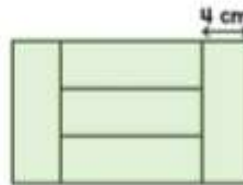
Amir notices that when he subtracts his number from Donna's number he gets an answer greater than 300 but less than 400.

What numbers did they make?

### Challenge 4

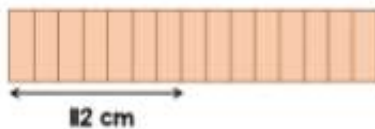
Five identical rectangles are put together to make a large rectangle.

The width of one rectangle is 4cm. Work out the perimeter of the large rectangle.



### Challenge 5

15 identical blocks are lined up as shown.



The length of each individual block is twice the width.

If all 15 blocks are then laid end to end lengthways, what is the total length of the blocks altogether now?

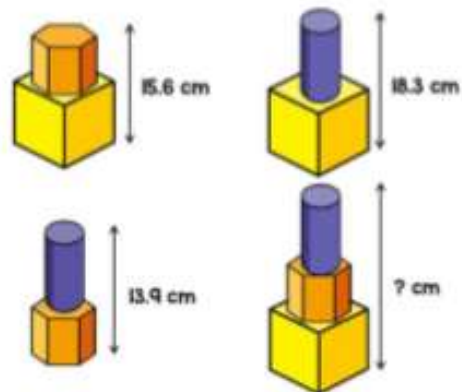


### Challenge 6

Liam has these three shapes.



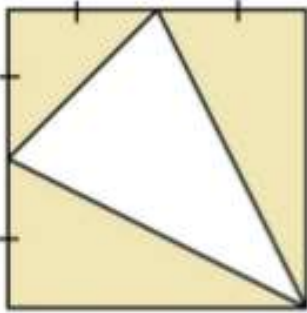
He uses them to make different towers. He measures the height of each tower he makes.



Liam stacks all three shapes to make one tall tower. How tall is the tower?

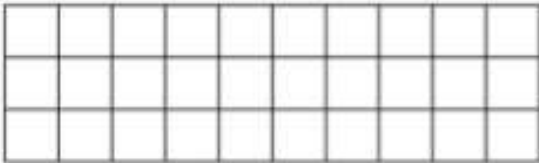
## Challenge 7

The diagram shows a square. The square has been divided into 4 triangles. What fraction of the square is shaded?



## Challenge 8

Lisa has this squared grid.



She shades some squares green so that the ratio of green squares to white squares is  $1:2$ .

She shades some more squares green so that the ratio of green squares to white squares is  $4:1$ .

How many more squares did Lisa need to shade?

## Lesson 5 - Tenths as decimals

If we are using tenths, we need a new place value column.

Hundreds	Tens	Ones	Tenths

The tenths column is to the right of the ones column.

**Get the Activity**

Y3 Spring Block 5 WCO: Tenths as decimals 2019

**Get the Answers**

Y3 Spring Block 5 ANSO: Tenths as decimals 2019

You will also find answer to each day's activity by clicking here.

## Challenge 9

He is reading a book.

- On Monday he reads  $\frac{2}{5}$  of the book.
- On Tuesday he reads  $\frac{1}{2}$  of the remaining pages.
- On Wednesday he reads  $\frac{5}{9}$  of the remaining pages.
- On Thursday he reads the rest of the book.

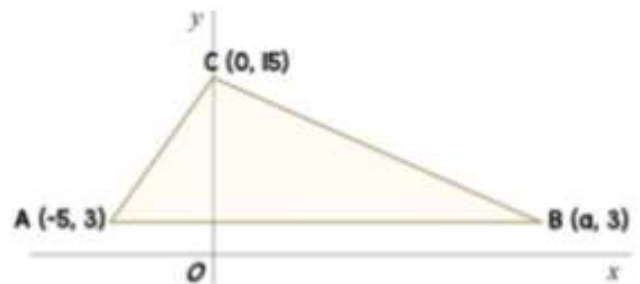
He read 68 more pages on Tuesday than Wednesday.

How many pages are there in the book?



## Challenge 10

Triangle ABC is shown.



The area of ABC is 126 units<sup>2</sup>.

Find the perimeter of triangle ABC.