

Hello Year 4!

Week 2 of our online learning. If you're having any problems logging in or accessing the work please call the school as we can access your account for you!

We have set up your learning for the next week as daily slides for you to follow.

Please follow the instructions on each page to help you - we look forward to hearing about how you have got on!

Miss Hill and Mrs Brown

Notes for Maths Online Learning

- You will need a pencil and a piece of paper, if you have a pad you can keep working from this would be ideal.
- All MyMaths Online lessons will be available for the week for you to complete. We will be able to access it each day to see how you got on and if you have completed the task we have set.
- After some sessions there will be a '**extra**' activity if you would like some additional reasoning work to do.
- We will endeavor to provide lessons and activities which you will not need to print off.



St Catherine's Classroom Beliefs

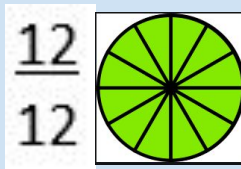
- Mistakes are valuable.
- Everyone can learn maths to the highest level.
- Questions are really important.
- Depth is more important than speed.
- Maths is about making connections.

Session 1



Equivalent Fractions:

- Counting fractions on a numberline
- Making links with times tables e.g. 2's, 4's, 8's
- Same value looks different
- If the numerator is the same as the denominator it is 1 whole e.g.
- Draw a picture to help you.



TODAY'S TIP

Find some resources you can use as concrete resources. For example, coins as counters, pencils, or even cut out some circles which you could pretend are counters!

Monday 27th April

Sometimes fractions can be **simplified** into smaller ones.

The fractions are said to be **equivalent**.

They have the same value, just look different!

<https://www.bbc.co.uk/bitesize/topics/zsxhfg8/articles/zwjwgdm>

Watch this video clip for a taster!

Monday 27th April

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

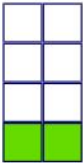
 Lesson | Introducing equivalent fractions

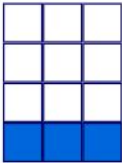
Finding equivalents to $\frac{1}{4}$

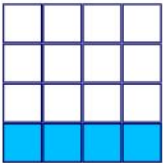
1
2
3
4
5
6
7
8
9

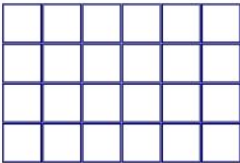
Shade in a quarter of each shape and write the equivalent fraction.

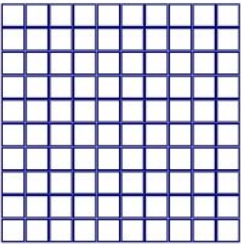
 $\frac{1}{4}$

 $\frac{2}{8}$

 $\frac{3}{12}$

 $\frac{4}{16}$

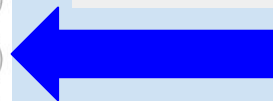
 $\frac{\quad}{24}$

 $\frac{\quad}{100}$

Mark it

Go through the lesson, steps 1
- 9.

This is interactive, you can
click and type to check your
understanding!



Monday 27th April

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

Online Homework | Introducing equivalent fractions

Q1

Q2 – Simplifying fractions

Simplify these fractions using repeated division by 2, 3, 5 or 7.

$\frac{34}{38} = \frac{\boxed{}}{\boxed{}}$

$\frac{3}{24} = \frac{\boxed{}}{\boxed{}}$

$\frac{66}{72} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

$\frac{9}{54} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

$\frac{35}{70} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$

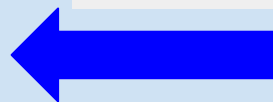
[12]

Mark it

Now have a go at the activity!

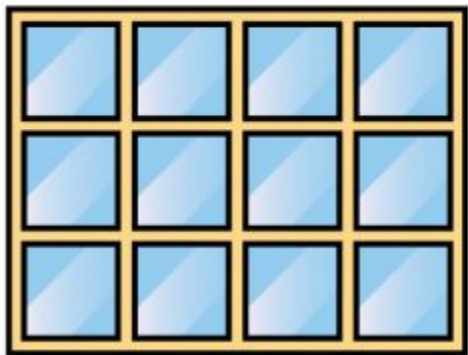
We look forward to seeing
how you got on!

Good Luck!



Monday 27th April

How many equivalent fractions can you see in this picture?



Extra Activity

Ron has two strips of the same sized paper.

He folds the strips into different sized fractions.

He shades in three equal parts on one strip and six equal parts on the other strip.

The shaded areas are equal.

What fractions could he have folded his strips into?

Get some
paper and have
a go!

St Catherine's Classroom Beliefs

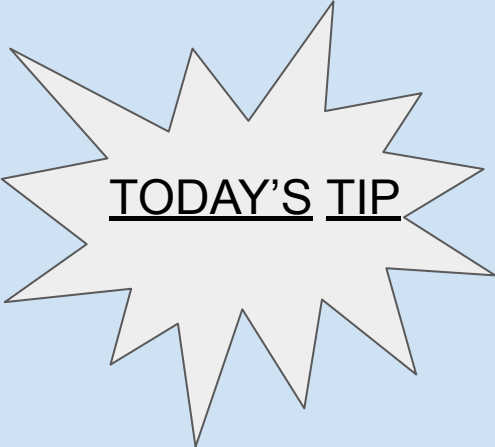
- Mistakes are valuable.
- Everyone can learn maths to the highest level.
- Questions are really important.
- Depth is more important than speed.
- Maths is about making connections.

Session 2



Simple Equivalent Fractions:

- Making links with times tables e.g. 2's, 4's, 8's
- Same value looks different
- If the numerator is the same as the denominator it is 1 whole e.g.
- Draw a picture to help you.



TODAY'S TIP

Find some resources you can use as concrete resources. For example, coins as counters, pencils, or even cut out some circles which you could pretend are counters!

Tuesday 28th April

Can you use the method of multiplying the numerators and denominators by the same number to ensure that fractions are equivalent.

Equivalent = same

Remember:

SAME VALUE LOOKS DIFFERENT

Tuesday 28th April

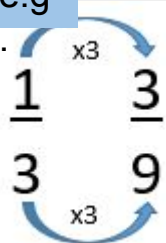
Use your times tables to help you.

Draw the images and shade them in.

What do you have to do to get to the equivalent fraction?

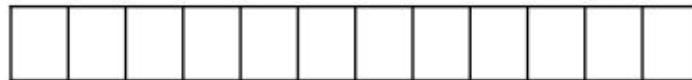
What other equivalent fractions can you find using the diagram?

e.g



If I multiply the numerator by a number, what do I have to do to the denominator to keep it equivalent? Is this always true?

Using the diagram, complete the equivalent fractions.



$$\frac{1}{4} = \frac{\square}{12} \quad \frac{1}{\square} = \frac{6}{12} \quad \frac{2}{3} = \frac{\square}{12} \quad \frac{5}{12} = \frac{\square}{24}$$



Using the diagram, complete the equivalent fractions.

$$\frac{1}{3} = \frac{\square}{6} = \frac{\square}{12} = \frac{\square}{24}$$

Complete:

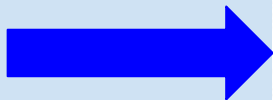
$$\frac{1}{4} = \frac{2}{\square} = \frac{\square}{12} = \frac{4}{\square} = \frac{\square}{100} = \frac{\square}{500}$$

Tuesday 28th April

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

Go through the
lesson, steps 1 - 9.

This is interactive, you
can click and type to
check your
understanding!



 Lesson | Simple equivalent fractions

	Chapter title	
1		1
2	1 Monkey goes bananas! >	2
3	2 Finding fractions >	3
4	3 Fraction shapes game >	4
5	4 Shading fractions >	5
6	5 Fraction choice game >	6
7	6 Mixing it up >	7
8	7 Loop card game >	8
9	8 Pairs game >	9
	9 Beat the clock >	

Objectives:

- Using all fractions up to tenths
- Recognising and finding fractions of shapes, numbers and sets of objects
- Recognising and finding equivalent fractions
- Converting fractions to decimals and vice versa

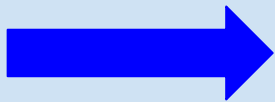
Tuesday 28th April

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

Now have a go at the activity!

Don't panic, draw it out, use
any resources that you can to
help make it!

Good Luck!



 Online Homework | Simple equivalent fractions Menu

Q1
0
6

Q2
0
8

No calc

Total
0
14

Q1 – Fraction of a quantity

Find these fractions.

$\frac{1}{3}$ of 21 =

$\frac{3}{4}$ of 24 =

$\frac{1}{10}$ of 40 =

$\frac{3}{5}$ of 25 =

$\frac{1}{8}$ of 24 =

$\frac{5}{6}$ of 54 =



[6]

Mark it

Tuesday 28th April

Extra Activity

Tommy is finding equivalent fractions.

$$\frac{3}{4} = \frac{5}{6} = \frac{7}{8} = \frac{9}{10}$$

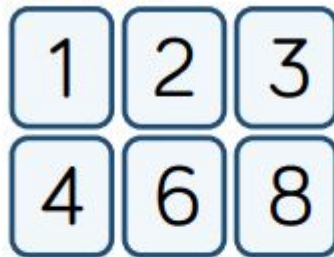
He says,



I did the same thing to the numerator and the denominator so my fractions are equivalent.

Do you agree with Tommy?
Explain your answer.

Use the digit cards to complete the equivalent fractions.



$$\frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

How many different ways can you find?

St Catherine's Classroom Beliefs

- Mistakes are valuable.
- Everyone can learn maths to the highest level.
- Questions are really important.
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Session 3



Adding and Subtracting Fractions:

- Denominator = whole amount of **equal** parts
- Numerator = how many of the **equal** parts we want
- Draw a picture to help you

Equivalent Fractions:

- Use the fraction wall
- Use your times tables to help you



Wednesday 29th April

Add and Subtract Fractions

Polly gives her pet rabbits a bucket of carrots.

The rabbits munch $\frac{4}{8}$ of the bucket of carrots.

What fraction of the bucket of carrots is left over?



twinkl.com

Find the
answer **AND**
the equivalent
fraction

Add and Subtract Fractions

Peter loves to eat biscuits.

On Monday, he devours $\frac{2}{9}$ of a packet.

On Tuesday, he scoffs $\frac{4}{9}$ of a packet.

What fraction of the packet of biscuits does he eat altogether?



twinkl.com

Wednesday 29th April

Add and Subtract Fractions

Meg is making cups of hot chocolate.

She uses $\frac{4}{10}$ of the packet of marshmallows in the first cup.

She uses $\frac{2}{10}$ of the packet of marshmallows in the second cup.

What fraction of the marshmallows are left over?



twinkl.com

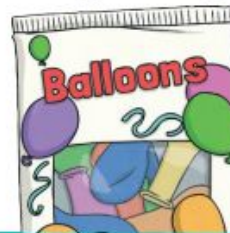
Find the
answer **AND**
the equivalent
fraction

Add and Subtract Fractions

Matt and his sister are decorating the house for a birthday party.

They use $\frac{6}{20}$ of the bag of balloons outside the house and $\frac{12}{20}$ of the bag on the inside of the house.

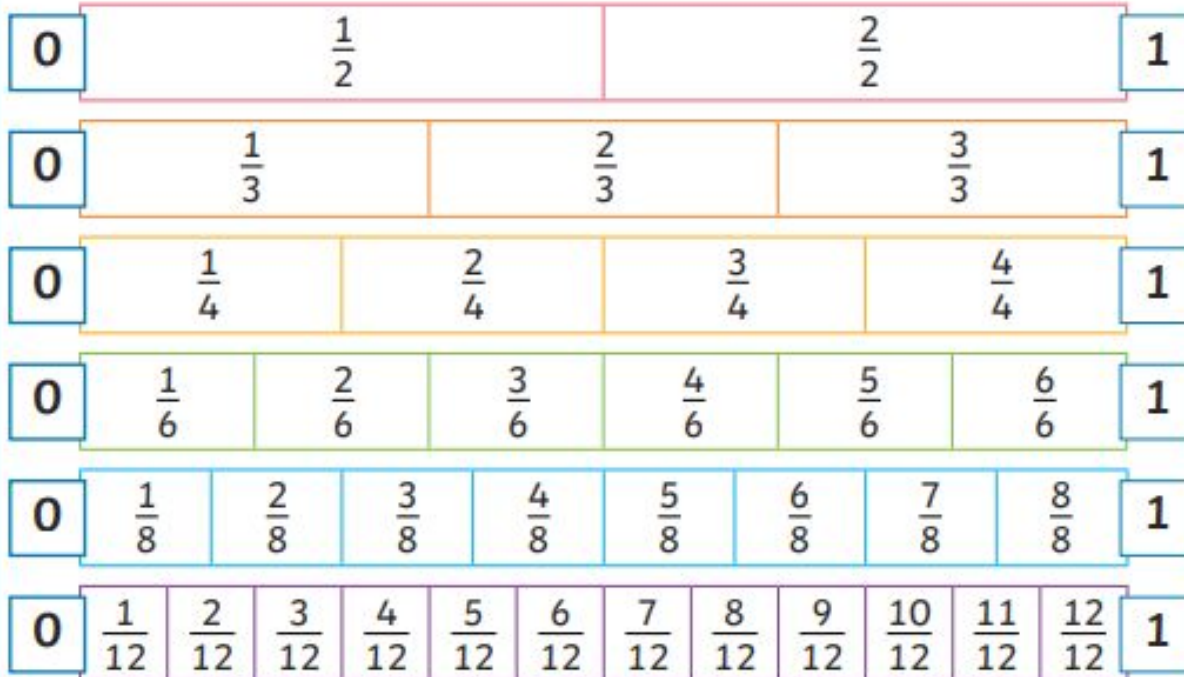
What fraction of the bag did they use altogether?



twinkl.com

Wednesday 29th April

Equivalent Fractions



Wednesday 29th April

Equivalent Fractions

Using the fraction lines on the separate card, work out the following equivalent fractions:

9. $\frac{3}{4} = \frac{\quad}{12}$

10. $\frac{1}{4} = \frac{\quad}{12}$

11. $\frac{6}{8} = \frac{\quad}{4}$

12. $\frac{6}{12} = \frac{\quad}{6}$



Equivalent Fractions

Using the fraction lines on the separate card, work out the following equivalent fractions:

13. $\frac{2}{6} = \frac{\quad}{12}$

14. $\frac{4}{6} = \frac{\quad}{12}$

15. $\frac{3}{4} = \frac{\quad}{8}$

16. $\frac{10}{12} = \frac{\quad}{6}$



Wednesday 29th April

Equivalent Fractions

Using the fraction lines on the separate card, work out the following equivalent fractions:

$$1. \quad \frac{1}{2} = \frac{\quad}{4} = \frac{3}{\quad} = -$$

$$2. \quad \frac{1}{4} = \frac{\quad}{8} = \frac{3}{\quad} = -$$

$$3. \quad \frac{9}{12} = \frac{\quad}{4} = \frac{6}{\quad} = -$$

$$4. \quad \frac{3}{4} = \frac{\quad}{8} = \frac{9}{\quad} = -$$



Equivalent Fractions

Using the fraction lines on the separate card, work out the following equivalent fractions:

$$5. \quad \frac{1}{6} = \frac{\quad}{12} = \frac{4}{\quad} = -$$

$$6. \quad \frac{1}{2} = \frac{\quad}{8} = \frac{3}{\quad} = -$$

$$7. \quad \frac{3}{6} = \frac{\quad}{4} = \frac{6}{\quad} = -$$

$$8. \quad \frac{2}{3} = \frac{\quad}{6} = \frac{6}{\quad} = -$$



St Catherine's Classroom Beliefs

- Mistakes are valuable.
- Everyone can learn maths to the highest level.
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Session 4



Fractions in real life.

- Use your division skills
 - Sharing and grouping
- Remember any tips and tricks!
- Make links with your times tables
- Use resources if you need to
- Draw a picture to help you

Thursday 30th April



$$DD \times N$$

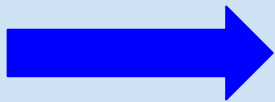
Divide by the Denominator

Multiply by the Numerator

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

Go through the
lesson, steps 1 - 9.

This is interactive, you
can click and type to
check your
understanding!



Lesson | Fractions as operators

	Chapter title
1	How are fractions used? >
2	Fractions of sets of objects >
3	6 questions >
4	Working with larger sets of objects >
5	4 questions >
6	Fractions with numerators greater than 1 >
7	The quick method >
8	4 questions >
9	Beat the clock >

Objectives:

- Finding fractions of a discrete set of objects (unit and non-unit fractions with small denominators)

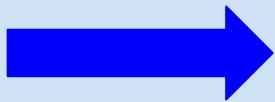
Thursday 30th April

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

Now have a go at the activity!

Don't panic, draw it out, use
any resources that you can to
help make it!

Good Luck!



 Online Homework | Fractions as operators Menu

Q1

0
10

Q2

0
6

No calc

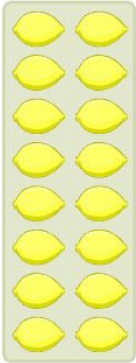
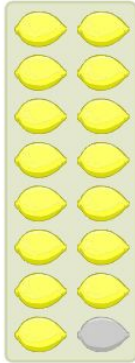
Total

0
16

Q1 – Fractions of sets of objects

10 questions – true or false?

1.

$\frac{1}{8}$ of  = 

✓ True

✗ False

Mark it

St Catherine's Classroom Beliefs

- Mistakes are valuable.
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- Maths is about making connections.

Session 5



Fractions in real life.

- Use your division skills
 - Sharing and grouping
- Remember any tips and tricks!
- Make links with your times tables
- Use resources if you need to
- Draw a picture to help you



Recap yesterday's lesson
and learning!

Smash it Year 4!

Friday 1st May



$$DD \times N$$

Divide by the Denominator

Multiply by the Numerator

Friday 1st May

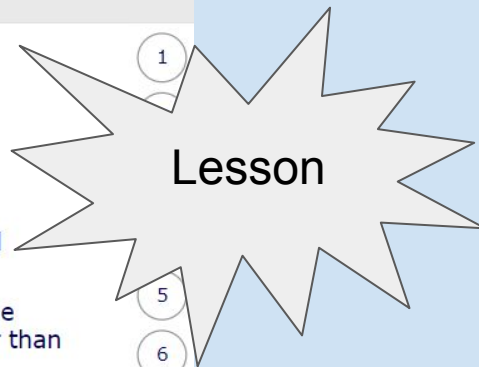
We will be learning using MyMaths Online.
Follow the lesson and complete the activity

 Lesson | Fractions as operators 2

	Chapter title
1	Finding simple fractions of numbers >
2	4 questions >
3	Fractions with numerators greater than 1 >
4	4 questions >
5	Fraction spider diagrams >
6	Beat the clock >
7	Working with tenths and hundredths >
8	4 questions >
9	Solving simple problems involving fractions >
10	4 word problems >

Objectives:

- Finding fractions of numbers and amounts
- Performing calculations where the fraction has a numerator greater than 1
- Solving simple word problems involving fractions



Friday 1st May

We will be learning using MyMaths Online.
Follow the lesson and complete the activity

 Online Homework | Fractions as operators 2

Menu

Q1 – Number problems

Find the answers to these number problems.

Q1
0
6

$\frac{1}{8}$ of 48 cm = cm

$\frac{1}{5}$ of 45 g = g

Q2
0
8

No calc

$\frac{2}{5}$ of 40 ml = ml

$\frac{5}{6}$ of £42 = £

Total
0
14

$\frac{8}{10}$ of 80 km = km

$\frac{21}{100}$ of 500 days = days


[6]

Mark it



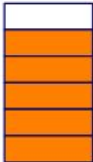

Online Worksheet

Fractions and decimals – OW

Menu

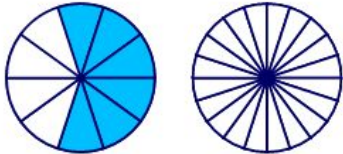
Q1 Q1 – Equivalent fractions, counting in hundredths

What fraction of the rectangle is shaded? [1]



$\frac{20}{24}$
 $\frac{20}{36}$
 $\frac{20}{30}$

Shade the empty circle so that the shaded fractions are equivalent. [1]



Q2

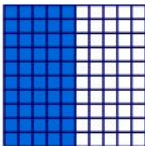
Q3

Q4

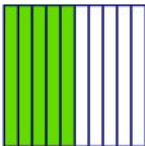
No calc

Total

What fractions are shaded in these diagrams? [2]



$\frac{\quad}{100}$



$\frac{\quad}{100}$

Write the next two fractions in each sequence. [4]

$\frac{20}{100}$
 $\frac{21}{100}$
 $\frac{22}{100}$
 $\frac{\quad}{100}$
 $\frac{\quad}{100}$

$\frac{65}{100}$
 $\frac{64}{100}$
 $\frac{63}{100}$
 $\frac{\quad}{100}$
 $\frac{\quad}{100}$

Mark it