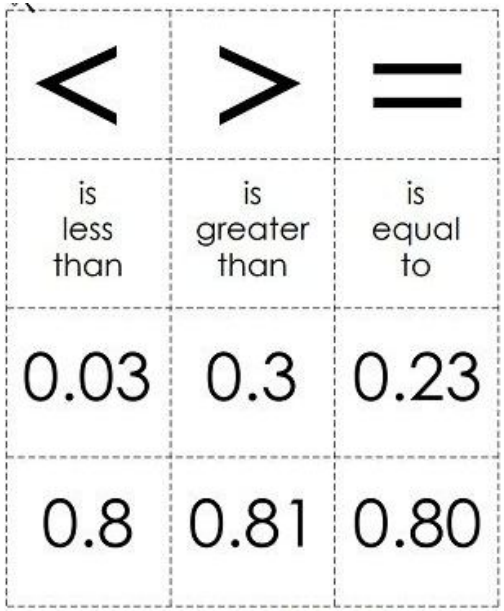
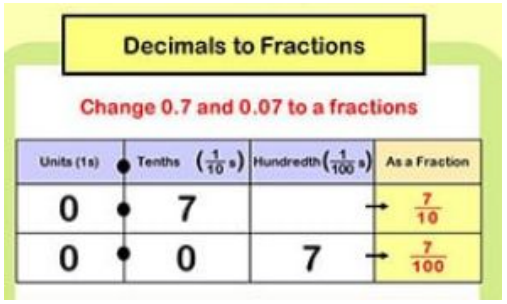
Weekly Maths Planning **Unit: Fractions, Decimals & Percentages** **Butterflies Y5/6** **w/b: 25.1.2021**

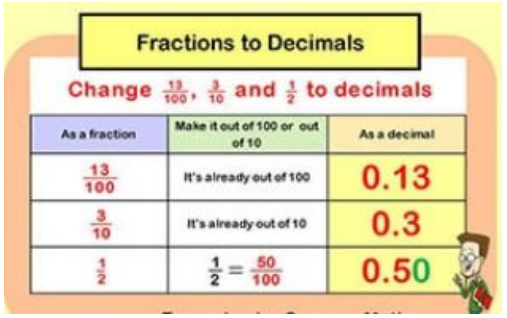
	Learning objective	Main teaching	Activity	Resources	Vocabulary
Monday	LO to be able to round decimals	There will be a zoom lesson link on class dojo. If you don't join the zoom follow: Recap of rounding whole numbers if you need it: https://www.bbc.co.uk/bitesize/topics/zh8dmp3/articles/zpx2qty Rounding decimals (watch the video and then try the activity at the bottom): https://www.bbc.co.uk/bitesize/topics/zh8dmp3/articles/zsvt97h	Download the worksheet from the website called 'Y6 Rounding Decimals Work'. You do not need to print this if you don't have a printer as you can draw your own tables in your maths books. Complete the questions in your exercise books.	Video links Maths book Pencil Worksheets	Rounding Estimate Accurate Place value Digit

Tuesday	LO to order and compare decimals	There will be a zoom lesson link on class dojo. If you don't join the zoom follow: **<u>Warm up</u>**: Would you rather have £0.80 or 75p? Explain your answer. Now, draw these cards. Can you position them so that they make correct sentences?  |zsUse the video link to help you to understand how we order and compare decimals https://www.bbc.co.uk/bitesize/articles/z68rn9q	**You have <u>2 options</u> today. Choose one or both:** 1. Have a mixture of coins (£1, 50p, 20p, 10p, 5p, 2p, 1p) Grab a handful of coins, count the amount and write it down. You should do this 8 times. Now, write the amounts in order from smallest to greatest. Send us a picture of you doing your maths work. Maybe you can invent a game to practise this skill? OR 2. Complete the order and compare worksheet below this grid. Mark your work when you're finished.	Worksheets Maths book Pencil Coins Cards for start of lesson	Decimal Fraction Whole Tenths Hundredths Thousandths

<table>
<tr>
<td>Wednesday</td>
<td>LO to convert fractions to decimals</td>
<td>There will be a Loom video posted on class dojo.

These videos will help you to understand how we convert fractions to decimals:
https://vimeo.com/491237616

 
</td>
<td>Create a piece of work which shows that you understand how to convert a fraction to a decimal.

This could be:

★ A poster
★ A video
★ A story
★ A lego model

BUT it must include the following:

1. A place value grid with an explanation like in the box to the left.
2. A grid showing the key fractions

(½ ¼ ¾ 1/5 1/10 1/100) and their decimal equivalents

<table>
<tr><td>Fraction</td><td>Decimal</td></tr>
<tr><td></td><td></td></tr>
<tr><td></td><td></td></tr>
<tr><td></td><td>etc</td></tr>
</table>

3. These words: equivalent, decimal, fraction, convert, tenth, hundredth</td>
<td>Video link

Equipment to create your piece of work

Ruler

Pencil

Paper</td>
<td>Decimal

Fraction

Numerator

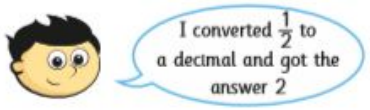
Denominator

Whole

Tenths

Hundredths

Thousandths</td>
</tr>
</table>

Thursday	L.O. to convert fractions to decimals	There will be a zoom lesson link on class dojo. If you don't join the zoom follow: Watch: https://vimeo.com/491970120 $\frac{3}{4}$ $3 \div 4$ $4\overline{)3.^{3}0^{2}0}$ 0.75 $\frac{3}{8}$ $3 \div 8$ $8\overline{)3.^{3}0^{6}0^{4}0}$ 0.375	**Copy and answer the questions below:** Find the decimal equivalents for these fractions. a) $\frac{7}{8} =$ ☐ c) $\frac{1}{16} =$ ☐ b) $\frac{7}{5} =$ ☐ d) $\frac{9}{16} =$ ☐ **Challenge:**  Jack is incorrect. Explain the mistake that Jack has made.	Pencil Paper	Fraction Decimal Division Equivalent Place value

Friday	**LO** to convert fractions to percentages	There will be a loom video for this lesson. Count in tenths, 0.1s and 10%s. Can you see the link? Can you add any other percentages/fractions/decimals to the numberline?  Watch the video and complete any activities you are asked to do: https://vimeo.com/492449530	Complete the activities on the worksheet 'Friday Independent work' **Remember, if in doubt, convert the fraction so it is over 100 and then the numerator tells you the percentage.**	Worksheets Work in box to left Numberline Video link	Decimal Fraction Numerator Denominator Whole Tenths Hundredths Thousandths

Y6 Tuesday independent activity

11.	0.045	0.075	0.704	0.459	0.415	0.514
12.	0.817	0.428	0.337	0.419	0.647	0.308
13.	0.237	0.575	0.035	0.944	0.969	0.775
14.	0.261	0.768	0.556	0.842	0.389	0.104
15.	0.408	0.165	0.445	0.04	0.905	0.326
16.	0.855	0.725	0.197	0.69	0.436	0.148
17.	0.33	0.657	0.643	0.976	0.178	0.73
18.	0.506	0.997	0.797	0.003	0.132	0.342
19.	0.322	0.477	0.529	0.742	0.492	0.003
20.	0.285	0.95	0.58	0.76	0.613	0.061

Y6 Tuesday answers

11. 0.045 0.075 0.704 0.459 0.415 0.514

0.045	**0.075**	**0.415**	**0.459**	**0.514**	**0.704**

12. 0.817 0.428 0.337 0.419 0.647 0.308

0.308	**0.337**	**0.419**	**0.428**	**0.647**	**0.817**

13. 0.237 0.575 0.035 0.944 0.969 0.775

0.035	**0.237**	**0.575**	**0.775**	**0.944**	**0.969**

14. 0.261 0.768 0.556 0.842 0.389 0.104

0.104	**0.261**	**0.389**	**0.556**	**0.768**	**0.842**

15. 0.408 0.165 0.445 0.04 0.905 0.326

0.04	**0.165**	**0.326**	**0.408**	**0.445**	**0.905**

16. 0.855 0.725 0.197 0.69 0.436 0.148

0.148	**0.197**	**0.436**	**0.69**	**0.725**	**0.855**

17. 0.33 0.657 0.643 0.976 0.178 0.73

0.178	**0.33**	**0.643**	**0.657**	**0.73**	**0.976**

18. 0.506 0.997 0.797 0.003 0.132 0.342

0.003	**0.132**	**0.342**	**0.506**	**0.797**	**0.997**

19. 0.322 0.477 0.529 0.742 0.492 0.003

0.003	**0.322**	**0.477**	**0.492**	**0.529**	**0.742**

20. 0.285 0.95 0.58 0.76 0.613 0.061

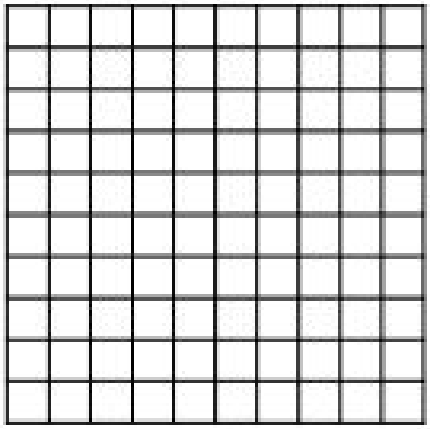
0.061	**0.285**	**0.58**	**0.613**	**0.76**	**0.95**

Y6 Friday Independent work

1. Match equivalent fractions to the correct percentages.

$\frac{3}{5}$	$\frac{5}{100}$	20%
$\frac{26}{50}$	$\frac{60}{100}$	52%
$\frac{1}{20}$	$\frac{20}{100}$	5%
$\frac{5}{25}$	$\frac{52}{100}$	60%

2. Shade the squares to show $\frac{6}{20}$ and write this as a percentage.



3. Competitors in a gym competition need more than 75% to get to the final. What percentage did each child score?

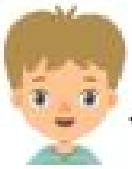
Ava-Lily	$\frac{38}{50}$	%
Tyrese	$\frac{8}{20}$	%
Rochelle	$\frac{18}{25}$	%

Who gets to the final?

4. True or false?

$\frac{7}{25}$ is equivalent to 28%.

5. Joey says,



$\frac{1}{20}$ as a percentage is 5%.

Is he correct? Convince me.

6. In this diagram, each shaded part is $\frac{5}{25}$ of the area of the rectangle.

What percentage is the total white area?

7. Malikah has converted a fraction into a percentage. She says,

My numerator is even. My denominator is 20 or 25. My percentage is < 60%.

What could her fraction and percentage combinations be? Find two examples for each denominator.