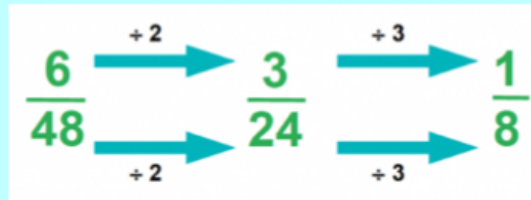23/6/20 - Maths
Skill: Simplifying fractions.

- What multiple can be divided both into the numerator and denominator?

- Divide the fraction down into its simplest form

$$\frac{6}{48} \xrightarrow[\div 2]{\div 2} \frac{3}{24} \xrightarrow[\div 3]{\div 3} \frac{1}{8}$$

Even though you've simplified the fraction down to its lowest form, they are all still equivalent. 1/8 is the same as 3/24...and so on...

1/8							

3/24

Like yesterday, use your multiplication grid to identify the factors and common multiples of each number (numerator and denominator)

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Multiplication Grid

You can use this today to support your learning.

Complete:
1. Here is 10/30 (written and presented pictorially)

10/30

Write and draw the fraction simplified and presented in its lowest form.

Simplify the following fractions into their **lowest form**:

2. 45/60

3. 36/48

4. 100/250 is simplified to its lowest form as 10/25. True or False? Why?

5. Can 4/13 be simplified? If not, why? *(clue: is the denominator a special kind of number?)*

6.

Match up the simplified fractions:

$\frac{4}{5}$	$\frac{2}{7}$
$\frac{3}{24}$	$\frac{72}{81}$
$\frac{6}{21}$	$\frac{1}{11}$
$\frac{4}{44}$	$\frac{3}{4}$
$\frac{21}{28}$	$\frac{16}{20}$
$\frac{8}{9}$	$\frac{1}{8}$

7. 55/105 simplified to its lowest form is 11/20. Am I correct? Show your working.