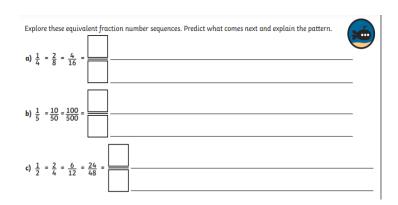
<u>Use this sheet **WHEN** you've completed the main worksheet and want a challenge</u>. <u>Remember to use your blue book</u> <u>if you have it to show your workings.</u> The questions were resourced from White Rose Maths and Twinkl Diving into <u>Mastery.</u>

1.



- a. $\frac{8}{32}$ The numerator and denominator are multiplied by 2 each time.
- b. $\frac{1000}{5000}$ the numerator and denominator are multiplied by 10 each time.
- c. $\frac{120}{240}$ The numerator and denominator are multiplied by 1 more each time.

2. 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.

Unfortunately, Tommy is wrong.

He has added 2 to each the denominator and numerator but these won't make them equivalent. For example $\frac{3}{4}$ is not equivalent to $\frac{7}{8}$

3. | The children have been using multiplication to calculate equivalent fractions for $\frac{1}{6}$. Check their work. Correct and explain their mistakes.

	Child	Equivalent Fraction ✓ or X	Explanation		
No. of the last of	Selma $\frac{1}{12} = \frac{1}{6}$ Logan $\frac{3}{12} = \frac{1}{6}$	Child	Equivalent Fraction	✓ or X	Explanation
		Selma <u> </u> = <u> </u> 12 = 6	1/12	Х	Selma has multiplied the denominator by 2 but has forgotten to multiply the numerator by 2.
		$\frac{3}{12} = \frac{1}{6}$	3 12	х	Logan has multiplied the numerator by 3 and the denominator by 2.
	Beth $\frac{4}{24} = \frac{1}{6}$	Beth $\frac{4}{24} = \frac{1}{6}$	<u>4</u> 24	√	Beth is correct. She has multiplied the numerator and the denominator by 4 giving her an equivalent fraction of $\frac{4}{24}$.