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,


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 <br> Fraction$\checkmark^{\text {or } X} \times$ Explanation |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Selma$\frac{1}{12}=\frac{1}{6}$ | Child | Equivalent Fraction | $\checkmark$ or X | Explanation |
|  | $\begin{aligned} & \text { Selma } \\ & \frac{1}{12}=\frac{1}{6} \end{aligned}$ | $\frac{1}{12}$ | X | Selma has multiplied the denominator by 2 but has forgotten to multiply the numerator by 2 . |
| $\frac{3}{12}=\frac{1}{6}$ | $\frac{3}{12}^{\text {Logan }}=\frac{1}{6}$ | $\frac{3}{12}$ | X | Logan has multiplied the numerator by 3 and the denominator by 2 . |
| Beth $\frac{4}{24}=\frac{1}{6}$ | Beth $\frac{4}{24}=\frac{1}{6}$ | $\frac{4}{24}$ | $\checkmark$ | Beth is correct. She has multiplied the numerator and the denominator by 4 giving her an equivalent fraction of $\frac{4}{24}$. |

