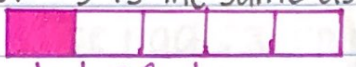
Fractions

1. Calculate:
   a) $6\frac{2}{3} + 2\frac{1}{12} = 8\frac{3}{4}$
   b) $3\frac{1}{3} + 2\frac{3}{5} = 5\frac{14}{15}$
   c) $3\frac{7}{12} - 1\frac{1}{4} = 2\frac{1}{3}$

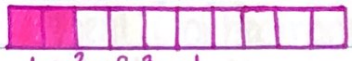
2. Sometimes the sum of two mixed numbers is a whole number. Give an example:
   $2\frac{2}{4} + 2\frac{2}{4} = 5$

3. Continue this pattern for 3 more differences.
   $1 - \frac{1}{2} = \frac{1}{2}$
   $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$
   $\frac{1}{4} - \frac{1}{8} = \frac{1}{8}$
   $\frac{1}{8} - \frac{1}{16} = \frac{1}{16}$
   $\frac{1}{16} - \frac{1}{32} = \frac{1}{32}$
   $\frac{1}{32} - \frac{1}{64} = \frac{1}{64}$

4. Draw a picture to show that $\frac{1}{3}$ of $\frac{3}{5}$ is the same as $\frac{2}{3}$ of $\frac{3}{10}$



↳ $\frac{1}{3}$ of $\frac{3}{5} = \frac{1}{5}$



↳ $\frac{2}{3}$ of $\frac{3}{10} = \frac{1}{5}$

5. Draw a picture to show $\frac{2}{5}$ of $\frac{3}{8}$.

6. What is the missing fraction in each sentence:
   a) $\frac{1}{4}$ of $\frac{2}{7}$ is $\frac{14}{}$
   b) $\frac{1}{3}$ of $\frac{3}{4}$ is $\frac{3}{12}$

7. Calculate each product.
   a) $\frac{1}{7} \times \frac{1}{8} = \frac{1}{56}$
   b) $\frac{5}{6} \times \frac{3}{4} = \frac{15}{24}$
   c) $\frac{3}{10} \times \frac{4}{5} = \frac{12}{50}$

8. If you multiply $\frac{3}{8}$ by another fraction, can the denominator be 20? Explain.
   No, because 20 does not evenly divide into 8.

9. Kyle multiplied a fraction less than 1 by $\frac{3}{7}$, could the answer be $\frac{3}{5}$? Explain.
   No, the answer can't be $\frac{3}{5}$ because when you multiply fractions, the denominators can't change.