Review 6

1 Solve and give your answer as a mixed number.

(a) $23 \div 3 = \boxed{\frac{23}{3}}$

$= \boxed{7\frac{2}{3}}$

(b) $32 \div 5 = \boxed{\frac{32}{5}}$

$= \boxed{6\frac{2}{5}}$

2 Write as a mixed number in its simplest form.

(a) $\frac{22}{6} = \boxed{\frac{22}{6}}$

$= \boxed{3\frac{2}{3}}$

(b) $\frac{38}{8} = \boxed{\frac{38}{8}}$

$= \boxed{4\frac{3}{4}}$

3 Fill in the blanks with < or >.

(a) $\frac{1}{2} \boxed{<} \frac{2}{3}$

(b) $\frac{1}{3} \boxed{<} \frac{3}{5}$

(c) $\frac{3}{8} \boxed{>} \frac{1}{12}$

(d) $\frac{4}{5} \boxed{>} \frac{1}{2}$

4 Arrange the fractions in descending order.

(a) $\frac{5}{8}$, $\frac{1}{3}$, $\frac{5}{12}$

$\frac{5}{8}$, $\frac{5}{12}$, $\frac{1}{3}$

(b) $\frac{3}{4}$, $\frac{1}{2}$, $\frac{3}{5}$

$\frac{3}{4}$, $\frac{3}{5}$, $\frac{1}{2}$

5 Find the sum of $\frac{5}{6}$ and $\frac{5}{12}$ and give your answer in the simplest form.

$\frac{5}{6} + \frac{5}{12} = \frac{10}{12} + \frac{5}{12} = \frac{15}{12}$

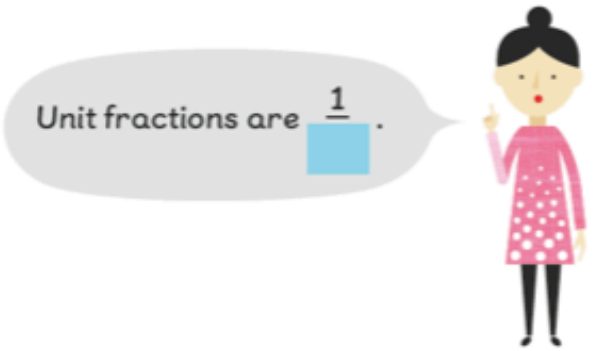
$\frac{15}{12} = \frac{5}{4} = 1\frac{1}{4}$

6 Fill in the blanks.

$2 - \frac{3}{8} = 1 + \boxed{\frac{5}{8}}$

$= \boxed{1\frac{5}{8}}$

Ancient Egyptians wrote fractions as the sum of different unit fractions.



Find the denominators in each equation.

(a) $\frac{2}{3} = \frac{1}{\square} + \frac{1}{\square}$

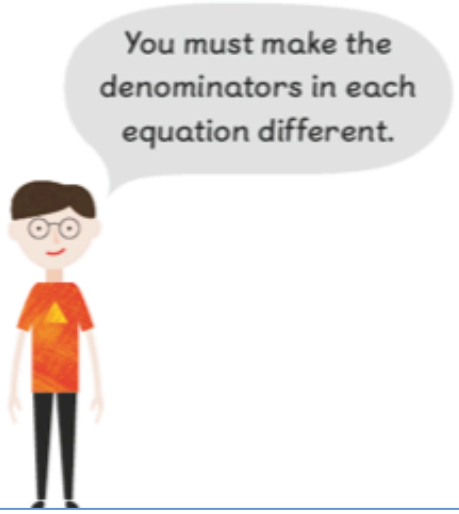
(b) $\frac{3}{4} = \frac{1}{\square} + \frac{1}{\square}$

(c) $\frac{4}{5} = \frac{1}{\square} + \frac{1}{\square} + \frac{1}{\square}$

(d) $\frac{7}{8} = \frac{1}{\square} + \frac{1}{\square} + \frac{1}{\square}$

(e) $\frac{8}{9} = \frac{1}{\square} + \frac{1}{\square} + \frac{1}{\square}$

(f) $\frac{9}{10} = \frac{1}{\square} + \frac{1}{\square} + \frac{1}{\square} + \frac{1}{\square}$



 did this.

$$\frac{1}{2} + \frac{1}{8} = \frac{2}{10}$$

Why is  wrong?

Write a note to him to explain how he should find the sum of $\frac{1}{2}$ and $\frac{1}{8}$.

Answers below:

Find the denominators in each equation.

(a) $\frac{2}{3} = \frac{1}{2} + \frac{1}{6}$

(b) $\frac{3}{4} = \frac{1}{2} + \frac{1}{4}$

(c) $\frac{4}{5} = \frac{1}{2} + \frac{1}{5} + \frac{1}{10}$

(d) $\frac{7}{8} = \frac{1}{2} + \frac{1}{4} + \frac{1}{8}$

(e) $\frac{8}{9} = \frac{1}{3} + \frac{1}{2} + \frac{1}{18}$

(f) $\frac{9}{10} = \frac{1}{2} + \frac{1}{4} + \frac{1}{10} + \frac{1}{20}$