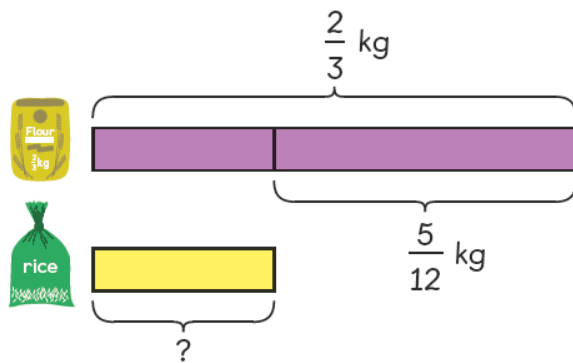# Subtracting Fractions

In Focus

Flour weighs $\frac{5}{12}$ kg more than rice .
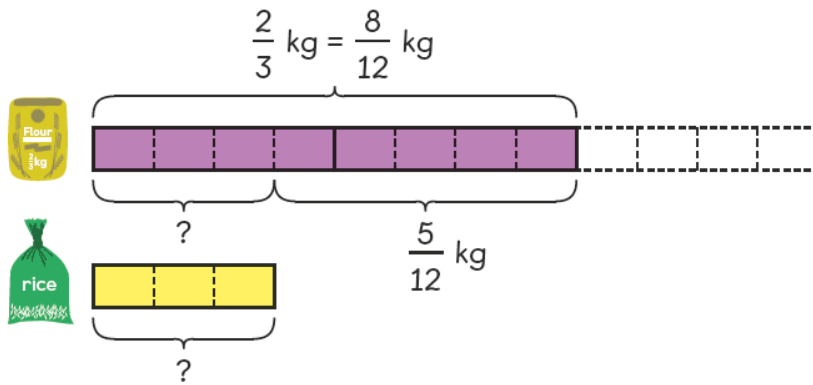
Is it possible to work out the mass of rice ?

Let's Learn

1

$\frac{2}{3}$ kg

$\frac{5}{12}$ kg

?

$$\frac{2}{3} - \frac{5}{12} = \boxed{}$$

$$\frac{2}{3} \text{ kg} = \frac{8}{12} \text{ kg}$$

Flour
¾ kg

rice

?

$$\frac{5}{12} \text{ kg}$$

?

$$\frac{2}{3} - \frac{5}{12}$$

$$= \frac{8}{12} - \frac{5}{12}$$

$$= \frac{3}{12}$$

$$= \frac{1}{4}$$

rice

$$\frac{1}{4} \qquad \frac{1}{4} \qquad \frac{1}{4} \qquad \frac{1}{4}$$

2 $\dfrac{9}{10} - \dfrac{2}{5} = \square$

$\dfrac{9}{10}$

$\dfrac{2}{5}$

?

$\dfrac{9}{10}$

?

$\dfrac{2}{5} = \dfrac{4}{10}$
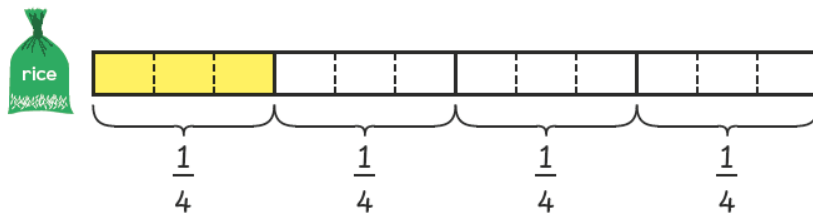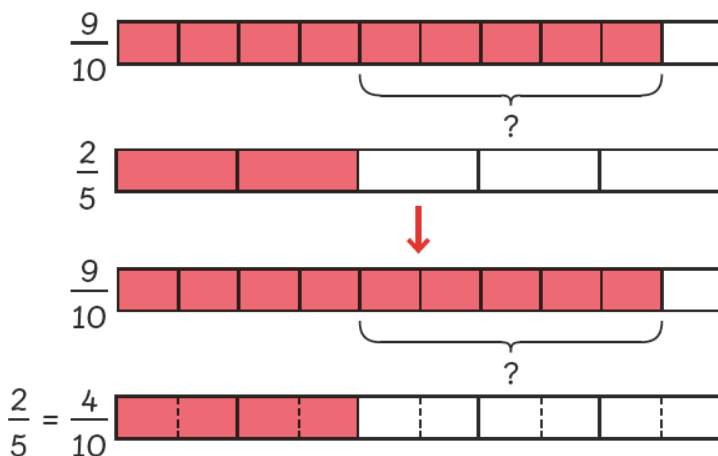
$\dfrac{9}{10} - \dfrac{2}{5}$

$= \dfrac{9}{10} - \dfrac{4}{10}$

$= \dfrac{5}{10} = \dfrac{1}{2}$

The difference between $\dfrac{9}{10}$ and $\dfrac{2}{5}$ is $\square$.

$\dfrac{5}{10} = \dfrac{1}{2}$ $\div 5$
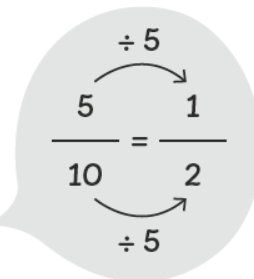
Guided Practice

1 Find the difference between $\dfrac{3}{4}$ and $\dfrac{1}{12}$.

$\dfrac{3}{4} - \dfrac{1}{12}$

$= \dfrac{\square}{\square} - \dfrac{\square}{\square}$

$= \dfrac{\square}{\square}$

$\dfrac{3}{4}$

$\dfrac{1}{12}$

Are the denominators equal?

Write the fractions with the same denominator.

Subtract. Check if it can be simplified.

2 Subtract.

(a) $\dfrac{2}{3} - \dfrac{1}{6} = $ ⬜ ⬜ — — —
                                ⬜ ⬜

= ⬜

(b) $\dfrac{4}{5} - \dfrac{3}{10} = $ ⬜ ⬜ — — —
                                 ⬜ ⬜

= ⬜

(c) $\dfrac{5}{6} - \dfrac{7}{12} = $ ⬜ ⬜ — — —
                                 ⬜ ⬜

= ⬜

(d) $\dfrac{1}{2} - \dfrac{1}{6} = $ ⬜ ⬜ — — —
                                ⬜ ⬜

= ⬜

(e) $\dfrac{1}{2} - \dfrac{1}{10} = $ ⬜ ⬜ — — —
                                 ⬜ ⬜

= ⬜

⬜ — ⬜ — ⬜ = — —
🔺 🟢 🟣

Is it true that the denominators 🔺, 🟢 and 🟣 are always different in the equations on this page?

Name: _____ Class: _____ Date: _____

Worksheet 13

Subtracting Fractions

1 Subtract and give your answer in the simplest form.

(a) $\dfrac{3}{4} - \dfrac{5}{12} =$

(b) $\dfrac{4}{5} - \dfrac{2}{15} =$

(c) $\dfrac{6}{7} - \dfrac{5}{14} =$

(d) $\dfrac{1}{2} - \dfrac{1}{18} =$

2 Subtract $\dfrac{1}{12}$ from $\dfrac{5}{6}$ and give your answer in the simplest form.