# Subtract fractions

**1** Complete the subtractions.

Use the bar models to help you.
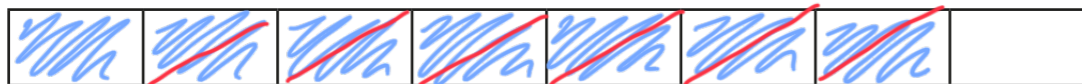
a)



$$\frac{5}{6} - \frac{1}{2} = \boxed{\frac{1}{3}}$$
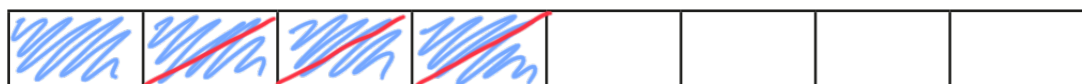
b)



$$\frac{5}{6} - \frac{1}{3} = \boxed{\frac{1}{2}}$$

c)



$$\frac{7}{8} - \frac{3}{4} = \boxed{\frac{1}{8}}$$

d)



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

**2** Match the equivalent calculations.

$$\frac{3}{4} - \frac{3}{20}$$

$$\frac{4}{5} - \frac{3}{20}$$

$$\frac{7}{10} - \frac{3}{20}$$

$$\frac{1}{2} - \frac{3}{20}$$

$$\frac{10}{20} - \frac{3}{20}$$

$$\frac{16}{20} - \frac{3}{20}$$

$$\frac{15}{20} - \frac{3}{20}$$

$$\frac{14}{20} - \frac{3}{20}$$

**3** Jack walks $\frac{7}{9}$ km to school.

Aisha walks $\frac{2}{3}$ km to school.

How much further does Jack walk than Aisha?

Jack walks $\boxed{\frac{1}{9}}$ km further than Aisha.

**4** Complete the subtractions.

**a)** $\dfrac{7}{8} - \dfrac{1}{16} = \boxed{\dfrac{13}{16}}$

$\dfrac{5}{8} - \dfrac{1}{16} = \boxed{\dfrac{9}{16}}$

$\dfrac{3}{8} - \dfrac{1}{16} = \boxed{\dfrac{5}{16}}$

$\dfrac{1}{8} - \dfrac{1}{16} = \boxed{\dfrac{1}{16}}$

**b)** $\dfrac{6}{7} - \dfrac{2}{21} = \boxed{\dfrac{16}{21}}$

$\dfrac{5}{7} - \dfrac{4}{21} = \boxed{\dfrac{11}{21}}$

$\dfrac{4}{7} - \dfrac{6}{21} = \boxed{\dfrac{6}{21}}$

$\dfrac{3}{7} - \dfrac{8}{21} = \boxed{\dfrac{1}{21}}$

What do you notice?

**5** On Saturday, Alex cycles for $\dfrac{2}{3}$ of an hour.
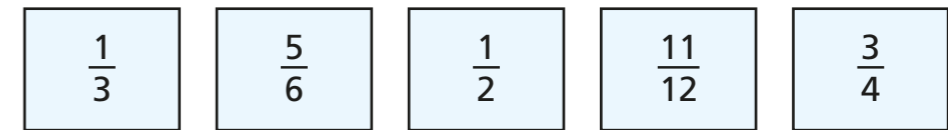
On Sunday, she cycles for $\dfrac{5}{12}$ of an hour.
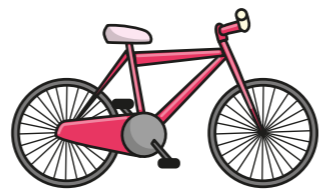
**a)** How many more hours does Alex cycle on Saturday than Sunday?

$\boxed{\dfrac{1}{4}}$ of an hour

**b)** How many more minutes does Alex cycle on Saturday than Sunday?

$\boxed{15}$ minutes

**6** Here are some fraction cards.

| $\dfrac{1}{3}$ | $\dfrac{5}{6}$ | $\dfrac{1}{2}$ | $\dfrac{11}{12}$ | $\dfrac{3}{4}$ |

**a)** Which two fractions have a difference of $\dfrac{1}{4}$ ?

$\boxed{\dfrac{3}{4}} - \boxed{\dfrac{1}{2}} = \dfrac{1}{4}$

**b)** Which two fractions have a difference of $\dfrac{1}{2}$ ?

$\boxed{\dfrac{5}{6}} - \boxed{\dfrac{1}{3}} = \dfrac{1}{2}$

**c)** Which two fractions have a difference of $\dfrac{1}{12}$ ?

Give two possible pairs.

$\boxed{\dfrac{11}{12}} - \boxed{\dfrac{5}{6}} = \dfrac{1}{12}$

$\boxed{\dfrac{5}{6}} - \boxed{\dfrac{3}{4}} = \dfrac{1}{12}$

**7** The perimeter of the rectangle is $\dfrac{14}{15}$ m.

Work out the missing length.

$\boxed{\dfrac{2}{15}}$ m

$\dfrac{1}{3}$ m