

# Subtract fractions



1 Complete the subtractions.

Use the bar models to help you.

a)



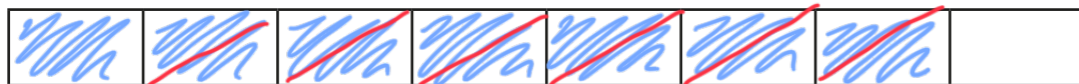
$$\frac{5}{6} - \frac{1}{2} = \frac{1}{3}$$

b)



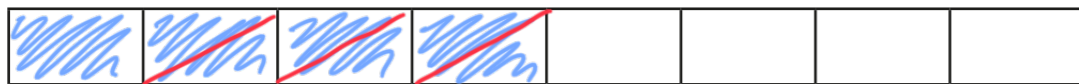
$$\frac{5}{6} - \frac{1}{3} = \frac{1}{2}$$

c)



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

d)



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

2 Match the equivalent calculations.

$\frac{3}{4} - \frac{3}{20}$	$\frac{10}{20} - \frac{3}{20}$
$\frac{4}{5} - \frac{3}{20}$	$\frac{16}{20} - \frac{3}{20}$
$\frac{7}{10} - \frac{3}{20}$	$\frac{15}{20} - \frac{3}{20}$
$\frac{1}{2} - \frac{3}{20}$	$\frac{14}{20} - \frac{3}{20}$

*Note: Blue lines connect the boxes as follows: (3/4 - 3/20) to (10/20 - 3/20), (4/5 - 3/20) to (16/20 - 3/20), (7/10 - 3/20) to (15/20 - 3/20), and (1/2 - 3/20) to (14/20 - 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  $\frac{1}{9}$  km further than Aisha.

4 Complete the subtractions.

$$\text{a) } \frac{7}{8} - \frac{1}{16} = \frac{13}{16}$$

$$\text{b) } \frac{6}{7} - \frac{2}{21} = \frac{16}{21}$$

$$\frac{5}{8} - \frac{1}{16} = \frac{9}{16}$$

$$\frac{5}{7} - \frac{4}{21} = \frac{11}{21}$$

$$\frac{3}{8} - \frac{1}{16} = \frac{5}{16}$$

$$\frac{4}{7} - \frac{6}{21} = \frac{6}{21}$$

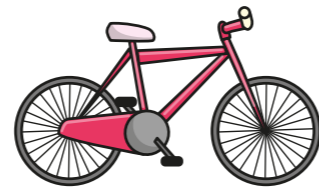
$$\frac{1}{8} - \frac{1}{16} = \frac{1}{16}$$

$$\frac{3}{7} - \frac{8}{21} = \frac{1}{21}$$

What do you notice?

5 On Saturday, Alex cycles for  $\frac{2}{3}$  of an hour.

On Sunday, she cycles for  $\frac{5}{12}$  of an hour.



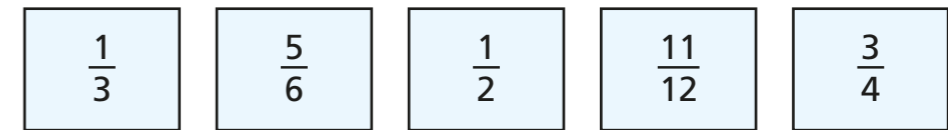
a) How many more hours does Alex cycle on Saturday than Sunday?

$\frac{1}{4}$  of an hour

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

15 minutes

6 Here are some fraction cards.



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

$$\frac{3}{4} - \frac{1}{2} = \frac{1}{4}$$

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

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

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

Give two possible pairs.

$$\frac{11}{12} - \frac{5}{6} = \frac{1}{12}$$

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

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

Work out the missing length.

