

Mixed addition and subtraction

1 Work out the calculations.

a) $\frac{2}{5} + \frac{3}{4} = 1\frac{3}{20}$

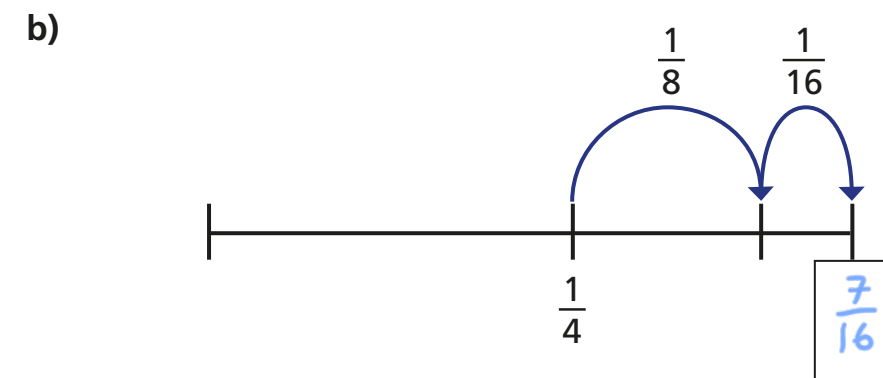
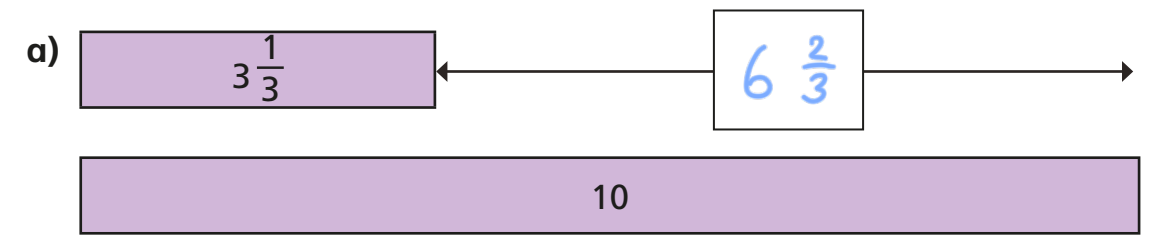
b) $2\frac{1}{4} - \frac{2}{3} = 1\frac{7}{12}$

c) $3\frac{7}{10} - 2\frac{1}{4} = 1\frac{9}{20}$

2 Complete the calculation.

$$\frac{5}{6} + 1\frac{2}{9} - \frac{1}{2} = 1\frac{5}{9}$$

3 Work out the missing fractions.



4 Complete the calculations.

a) $\frac{2}{5} + \frac{1}{5} + \frac{2}{5} = 1$

b) $\frac{2}{5} + \frac{1}{5} + \frac{9}{10} = 1\frac{1}{2}$

c) $\frac{2}{5} + \frac{1}{5} + \frac{11}{15} = 4\frac{2}{3}$

d) $\frac{4}{5} = 1\frac{3}{5} - \frac{4}{5}$

5 Which of these are true and which are false?

Can you decide without having to do the additions or the subtractions?

Talk about your reasons with a partner.

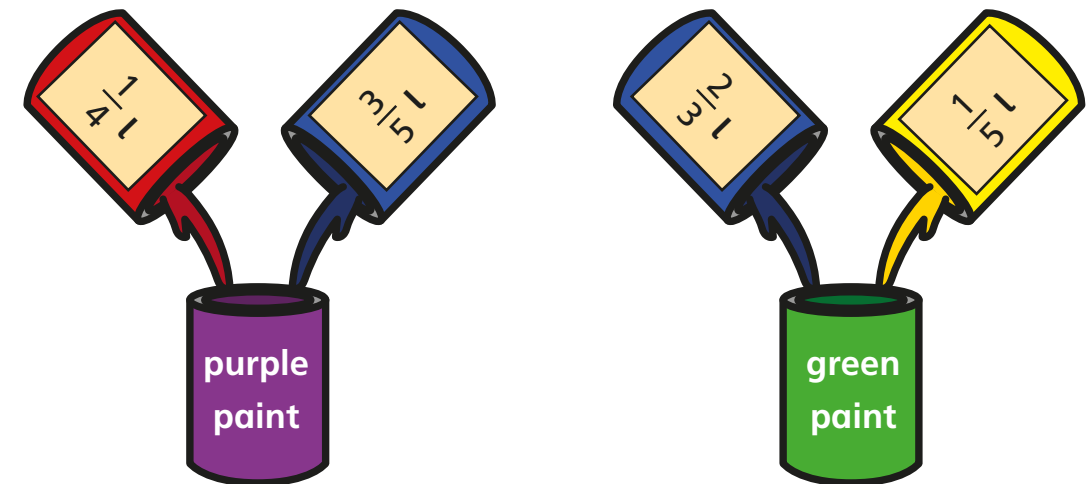
	True or false?
$2\frac{1}{3} + 3\frac{3}{4}$ is equal to $3\frac{1}{3} + 2\frac{3}{4}$	True
$3\frac{3}{4} - \frac{1}{3}$ is less than $4\frac{3}{4} - 1\frac{1}{3}$	False
$3\frac{3}{4} - 2\frac{1}{3}$ is equal to $3\frac{1}{3} - 2\frac{3}{4}$	False



6 Complete the addition grid.

$1\frac{1}{4}$	$2\frac{1}{10}$	$\frac{1}{4}$	$= 3\frac{3}{5}$
$\frac{1}{25}$	$1\frac{3}{20}$	$2\frac{1}{5}$	$= 3\frac{39}{100}$
$3\frac{2}{5}$	$1\frac{1}{50}$	$1\frac{3}{100}$	$= 5\frac{9}{20}$
$4\frac{69}{100}$	$4\frac{27}{100}$	$3\frac{12}{25}$	

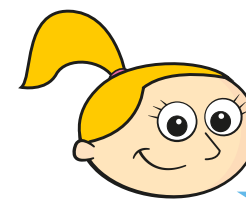
7 A painter uses the following mixtures.
How much more green paint does she have than purple paint?



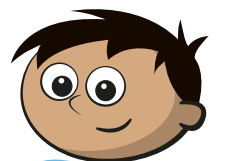
$$\frac{1}{60}$$

8 Eva and Amir are working out this calculation.

$$\frac{1}{4} + \frac{25}{100} - \frac{2}{8} - \frac{9}{36}$$



This is going to be very difficult, because I can't find a common denominator.



I have found an easier way.

Find Amir's solution. Explain how this calculation can be solved.

All four fractions are equivalent to $\frac{1}{12}$ so the answer is 0

