

## Thursday 14<sup>th</sup> May Lesson 4 - Mixed addition and subtraction

Mixed addition and subtraction Video: <https://whiterosemaths.com/homelearning/year-6/> Use **Summer Term - Week 3 (w/c 4th May)**

### Mixed addition and subtraction

White  
Rose  
Maths

1 Work out the calculations.

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

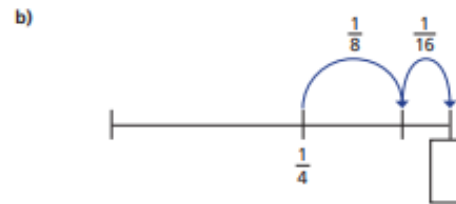
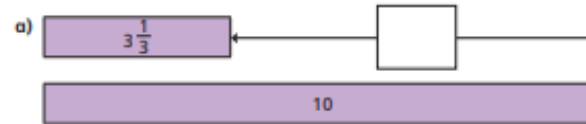
b)  $2\frac{1}{4} - \frac{2}{3} = \square$

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

2 Complete the calculation.

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

3 Work out the missing fractions.



4 Complete the calculations.

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

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

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

d)  $\frac{4}{5} = \square - \frac{4}{5}$

- 5 Which of these are true and which are false?

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

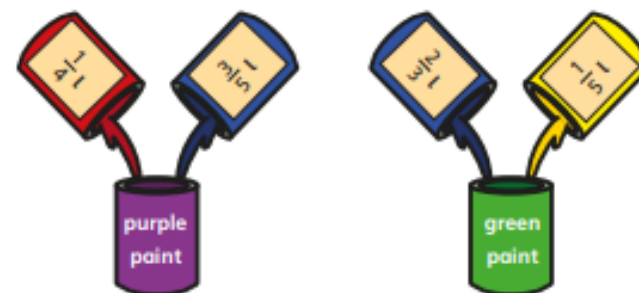
Talk about your reasons with a partner.

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

- 6 Complete the addition grid.

$1\frac{1}{4}$		$\frac{1}{4}$	= $3\frac{3}{5}$
$\frac{1}{25}$	$1\frac{3}{20}$		= $3\frac{39}{100}$
	$1\frac{1}{50}$	$1\frac{3}{100}$	= $5\frac{9}{20}$
<input type="text"/>	<input type="text"/>	<input type="text"/>	

- 7 A painter uses the following mixtures.



How much more green paint does she have than purple paint?

- 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.

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## Answers

### Mixed addition and subtraction



1 Work out the calculations.

a)  $\frac{2}{5} + \frac{3}{4} = \boxed{\frac{19}{20}}$

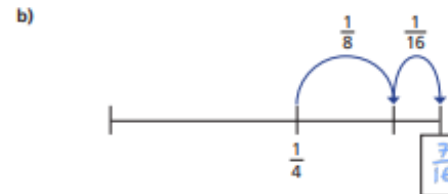
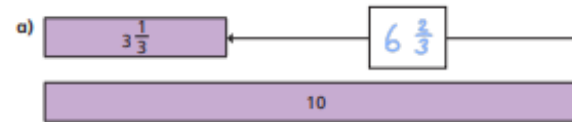
b)  $2\frac{1}{4} - \frac{2}{3} = \boxed{\frac{17}{12}}$

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

2 Complete the calculation.

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

3 Work out the missing fractions.



4 Complete the calculations.

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

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

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

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

- 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.

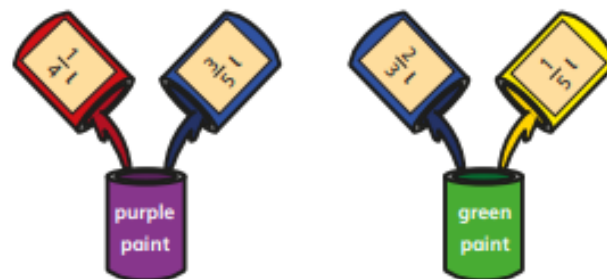
	True or false?
$2\frac{1}{3} + 3\frac{3}{4}$ is equal to $3\frac{1}{3} + 2\frac{3}{4}$	True
$3\frac{3}{4} - \frac{1}{3}$ is less than $4\frac{3}{4} - 1\frac{1}{3}$	False
$3\frac{3}{4} - 2\frac{1}{3}$ is equal to $3\frac{1}{3} - 2\frac{3}{4}$	False

- 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?



$$\frac{1}{10}$$

- 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  $\frac{1}{4}$  so the answer is 0.