

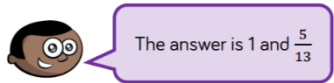
Use this sheet **WHEN** you've completed the main worksheet and want a challenge. Remember to use your blue book if you have it to show your workings. The questions were resourced from White Rose Maths and Twinkl Diving into Mastery.

1.

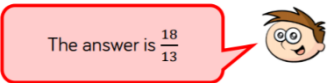
Mo and Teddy are solving:

$$\frac{6}{13} + \frac{5}{13} + \frac{7}{13}$$

Mo



Teddy



Who do you agree with?
Explain why.

They are both correct.

Mo's answer is 1 whole and $\frac{5}{13}$. 1 whole in this instance represents

$\frac{13}{13}$ and when adding the $\frac{5}{13}$, this will add to $\frac{18}{13}$

Teddy's answer is already $\frac{18}{13}$

2.

Use each digit below once to complete the fractions in the grid so that each column, row or diagonal line adds up to $\frac{15}{4}$.

1	2	3	4	5
6	7	8	9	
$\frac{\square}{4}$	$\frac{\square}{4}$	$\frac{\square}{4}$	$\frac{\square}{4}$	$\frac{\square}{4}$
$\frac{\square}{4}$	$\frac{\square}{4}$	$\frac{\square}{4}$	$\frac{\square}{4}$	$\frac{\square}{4}$
$\frac{\square}{4}$	$\frac{\square}{4}$	$\frac{\square}{4}$	$\frac{\square}{4}$	$\frac{\square}{4}$

There will be different answers but here is one possible way:

$\frac{2}{4}$	$\frac{7}{4}$	$\frac{6}{4}$
$\frac{9}{4}$	$\frac{5}{4}$	$\frac{1}{4}$
$\frac{4}{4}$	$\frac{3}{4}$	$\frac{8}{4}$

3.

Which is the odd one out and why?

A $\frac{5}{8} + \frac{3}{8}$ B $\frac{12}{10} + \frac{8}{10}$ C $\frac{90}{100} + \frac{10}{100}$

The odd one out is B. This is because A and C both add up to one whole. B adds up to 2 wholes.

4.

Each child has used a different model to help them calculate the answer to the calculation. Mark their work, correct it and give them feedback.

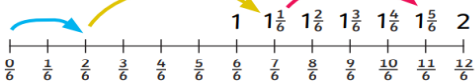
$$\frac{2}{6} + \frac{5}{6} + \frac{3}{6} = \square$$

Lilah



Correct ()
or Incorrect ()?

Carl



Correct () or Incorrect ()?

Nadia



Correct ()
or Incorrect ()?

Lilah is incorrect. Her model shows she has only added $\frac{2}{6}$ and $\frac{5}{6}$, which would give the answer $\frac{7}{6}$. She needs to add the third fraction as well to give the answer $\frac{10}{6}$.

Carl is incorrect. His model shows that he has added 3 fractions together but his number line shows the calculation $\frac{2}{6} + \frac{5}{6} + \frac{4}{6}$ which gives the answer $\frac{11}{6}$, instead of $\frac{10}{6}$.

Nadia is correct. Her model represents the calculation $\frac{2}{6} + \frac{5}{6} + \frac{3}{6}$, which gives the answer $\frac{10}{6}$.