28.01.2021 – To count in tenths Challenge Sheet

*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.

Odd One Out

Which is the odd one out?
Explain your answer.

The odd ones out are the marbles.

When thinking about tenths, all the others have a tenth represented. The marbles only have eight altogether.

2.

3) a) Use the clues to find the missing fraction.

I start on a tenth with an even numerator.

I count backwards three-tenths.

I count forwards four-tenths.

I am now on $\frac{5}{10}$.

What fraction did I start with?

b) Is there more than one possibility? Use reasoning to explain your answer.

They would start on 4/10.

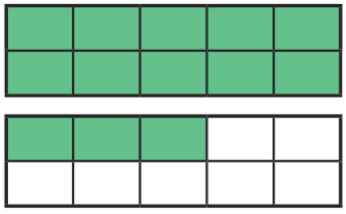
When they count backwards, they would be on 1/10.

Forwards four tenths and they would land on 5/10.

The only possibility is 4/10.

3.

Farooq is shading in ten frames to show tenths.



If I rub out four-tenths, I will still have more than a whole left over.

Farooq is incorrect.

The question is essentially 13/10 subtract 4/10 which will leave him with 9/10.

9/10 is less than 10/10 which is one whole.

He has less than a whole.

4.

) Two children are discussing fractions.

One-tenth greater than $\frac{10}{10}$ is $\frac{11}{10}$.

$\frac{10}{10}$ is a whole so you cannot have greater than $\frac{10}{10}$.

Which child is correct? Using reasoning to explain.

The first child is correct.

You can have a fraction bigger than one whole.

It would be written as $1\frac{1}{10}$ which is the same as 11/10.

When you've finished – check your answers via the challenge sheet answersheet