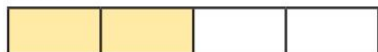


Use this sheet **WHEN** you've completed the main worksheet and want a challenge. Remember to use your blue book if you have it to show your workings. The questions were resourced from White Rose Maths and Twinkl Diving into Mastery.

1.

1) Two friends are discussing the bar model.

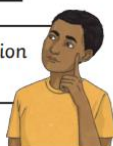
Which of the two friends do you agree with? Use reasoning to explain your answer.



I can make an equivalent fraction with a denominator of 10.



I can make an equivalent fraction with a denominator of 8.



They are both correct.

An equivalent fraction with a denominator of 10 could be  $\frac{5}{10}$

An equivalent fraction with a denominator of 8 could be  $\frac{4}{8}$

2.



Teddy makes this fraction:



Mo says he can make an equivalent fraction with a denominator of 9

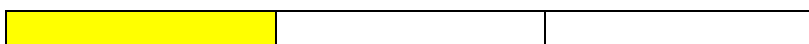
Dora disagrees. She says it can't have a denominator of 9 because the denominator would need to be double 3



Who is correct? Who is incorrect? Explain why.

Mo is correct.

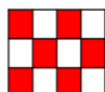
An equivalent with a denominator of 9 would be  $\frac{3}{9}$



Dora has got confused and believes that you can only double an equivalent fraction, when that is not the case.

3.

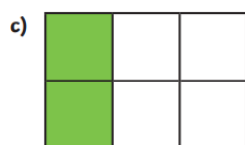
Which is the odd one out? Explain why



The odd one out is the shape with  $\frac{3}{5}$  shaded.

All the other shapes, even with different denominators, represent  $\frac{1}{2}$

4) Which of the bar models is the odd one out? Circle and explain your answer.



The odd one out is E.

E represents  $\frac{2}{5}$  and cannot be simplified to show a smaller fraction.

In their simplest forms, all the other fractions can be simplified to  $\frac{1}{3}$

**When you've finished – send your solutions to the Year 4 email address**