Year 6 Wednesday 13th May 2020 Maths

LO: to divide fractions by integers

<u>Please note: this link only works on either pdf or the link above this</u> <u>powerpoint.</u> <u>The video lesson is available here – Summer Term - Week 4 - lesson 3</u>





Brain Teaser

A frog has fallen into a well that is 84m deep.

Each day the frog climbs 9m. Unfortunately during the night she falls down 2m.

How many days will it take for her to escape?



Example 1:

A tasty problem,

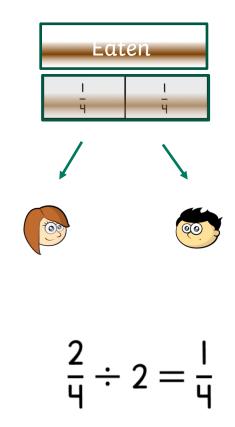
You have a chocolate bar.

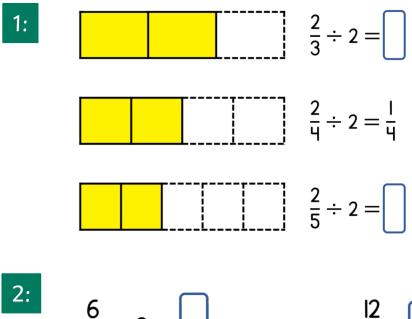
It is split into 4 equal pieces.

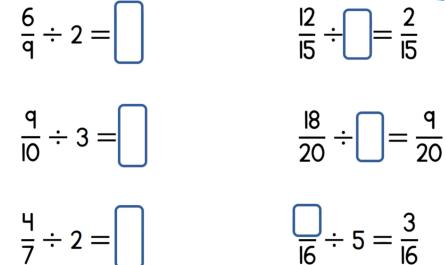
You eat 2 of them and have $\frac{2}{4}$ left.

Then a friend arrives and you plan to share the remaining $\frac{2}{4}$ with them. How much would you each get?

Have a think.





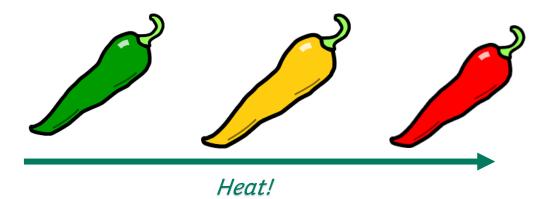


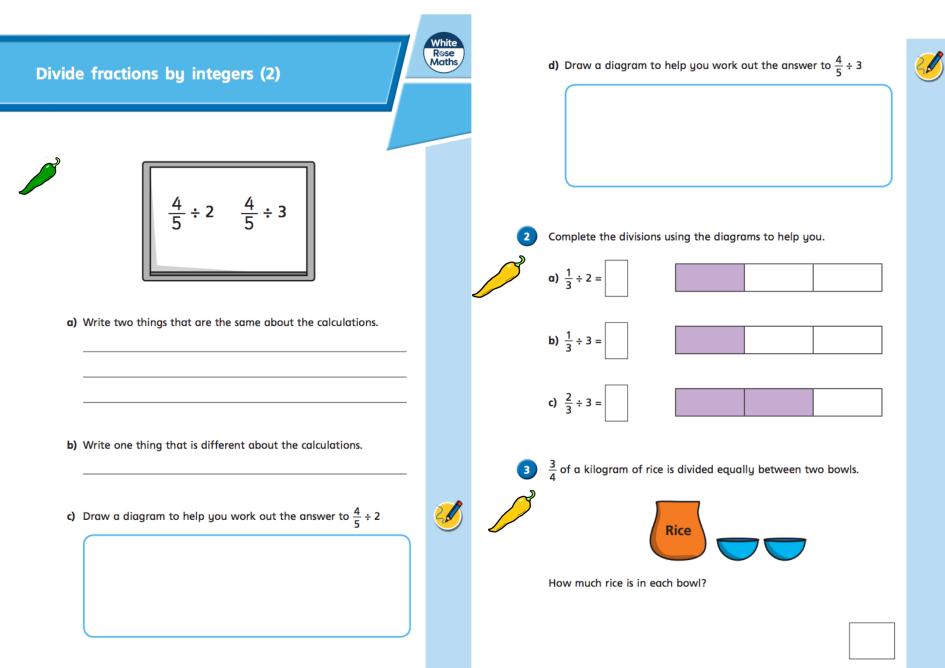
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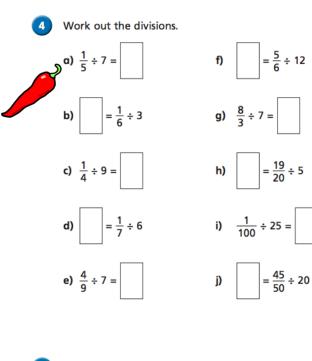




The independent work continues on the next two slides. There are 6 questions and 1 extension.







Write <, > or = to complete each statement.

a) $\frac{1}{3} \div 5$ $\left(\begin{array}{c} \\ \end{array} \right) \frac{1}{5} \div 3$ **b)** $\frac{1}{3} \div 3$ $\frac{1}{5} \div 5$ $\frac{3}{5} \div 3$ c) $\frac{3}{5} \div 5$

5

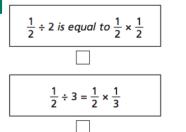
- There are some cones in the PE shed. 6
- Classes 1, 2 and 3 share them equally.
 - Class 1 put theirs into 4 equal piles. • Class 2 put theirs into 5 equal piles.
 - Class 3 put theirs into 11 equal piles.

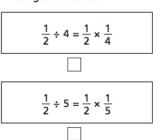
What fraction of the whole number of cones is in each pile?

	Fraction in each pile
Class 1	
Class 2	
Class 3	

Ext

a) Which of these statements are true? Tick your answers.





b) What do you notice?

Is it only true for halves?

Does it work for non-unit fractions?

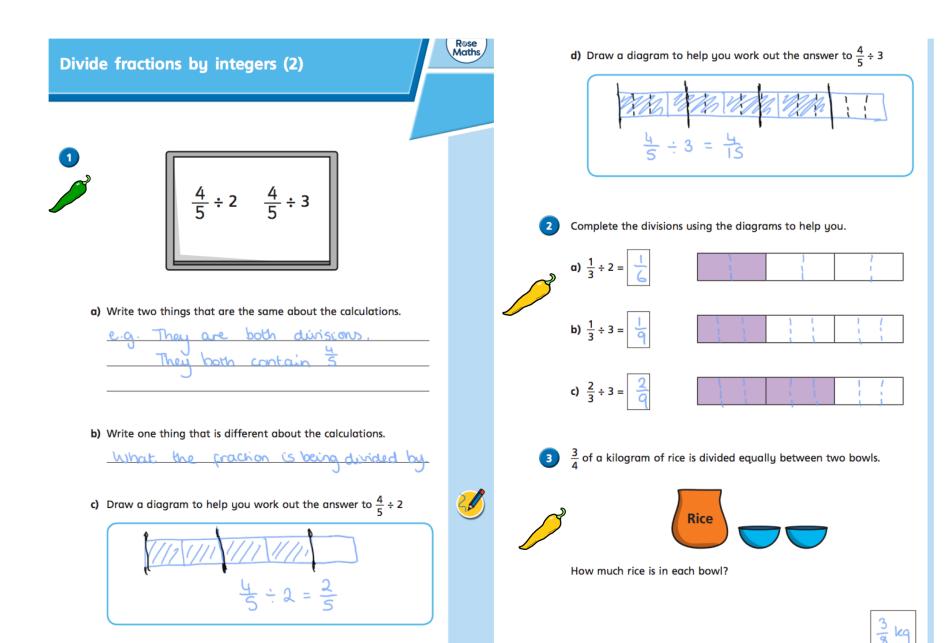
Talk to a partner.

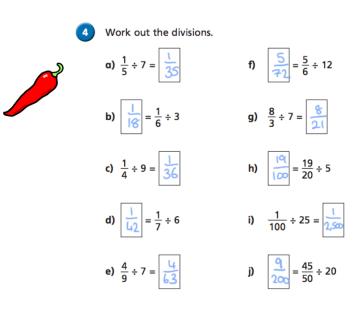


White Rose Maths



The next two slides contain the answers should you wish to check you work and reflect on what you understand.





Write <, > or = to complete each statement. 5

a) $\frac{1}{3} \div 5$ (-) $\frac{1}{5} \div 3$ **b)** $\frac{1}{3} \div 3 (7) \frac{1}{5} \div 5$ c) $\frac{3}{5} \div 5 \left(\checkmark \right) \frac{3}{5} \div 3$ 6 There are some cones in the PE shed. Classes 1, 2 and 3 share them equally.

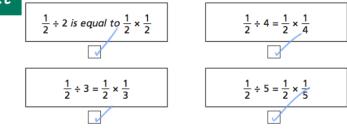
- Class 1 put theirs into 4 equal piles.
- Class 2 put theirs into 5 equal piles.
- Class 3 put theirs into 11 equal piles.

What fraction of the whole number of cones is in each pile?

	Fraction in each pile
Class 1	112
Class 2	1 <u>1</u> 5
Class 3	⊥ 33

Ext

a) Which of these statements are true? Tick your answers.



- b) What do you notice?
 - Is it only true for halves?

Does it work for non-unit fractions?

Talk to a partner.