



Maths Problem Solving 5.3.21


1. The Blue Wizard is creating a potion to make people laugh uncontrollably. Altogether he is creating one whole cauldron. The ingredients are added in fractions that all have different denominators.




The fraction of frog slime needed is equivalent to another ingredient.



Frog Slime



Giggle Juice

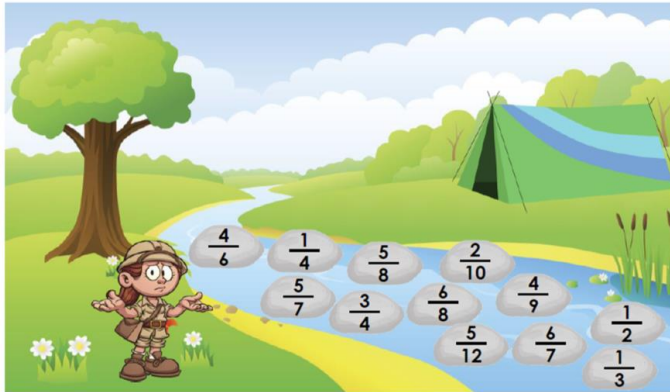


Unicorn Blood

The potion needs more giggle juice than unicorn blood.

Investigate the fractions that make up the whole cauldron.

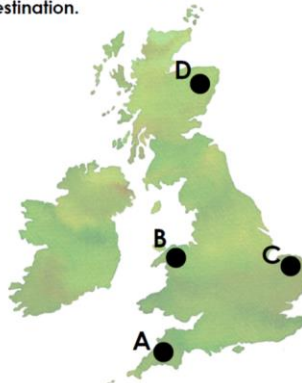
1. Jane is camping and needs to cross the river to get to the campsite. She can only cross if she steps on three stepping stones that total a fraction between $1\frac{1}{2}$ and 2.



Explore the different combinations of stepping stones that Jane can use.

1. Frasier and Eilan are going on holiday. They want to visit two places but want to use 5 or less tanks of petrol to get to their final destination.

Route	Petrol needed
A to B or B to A	$1\frac{2}{5}$ tanks
A to C or C to A	$1\frac{9}{11}$ tanks
A to D or D to A	$3\frac{3}{7}$ tanks
B to C or C to B	$1\frac{9}{10}$ tanks
B to D or D to B	$2\frac{4}{5}$ tanks
C to D or D to C	$2\frac{7}{8}$ tanks



Explore where they could have started and two journeys they could take that use 5 or less tanks of petrol.