

Lego Fractions—Make a Model

Challenge One

Make a model which is exactly $\frac{1}{2}$ one colour.

How can you make sure that exactly half of all your bricks are the same colour?



Extension: Sally has made a model using 21 bricks. 10 of them are red bricks. She says “ $\frac{1}{2}$ of my model is made of red bricks.” True or False?

Harry has made a model using 10 bricks which are all different sizes. 5 of them are blue. Is $\frac{1}{2}$ of his model made of blue bricks?

Deepen your thinking:

Why should all the Lego bricks be the same size for this activity?

Challenge Two

Make a model using 50 bricks which are all the same size. Record the fraction of each colour you use. All your fractions will be out of 50.

You may want to simplify your fractions so they have a smaller denominator.



Extension 1: Work out the equivalent percentage for each of your fraction colours.

Extension 2: Make a new model but with only 20 bricks.

Record your fractions for each colour— what will the denominator be now? How can you calculate the percentages?