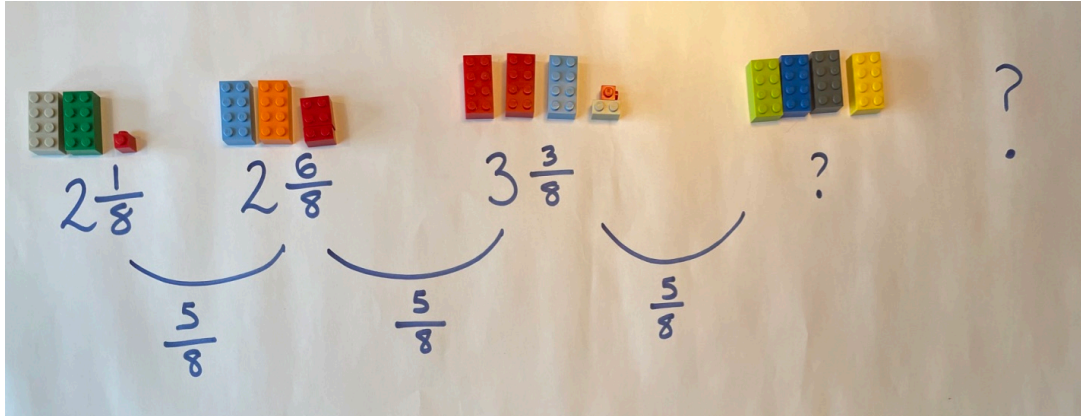


## Number Sequences with Lego

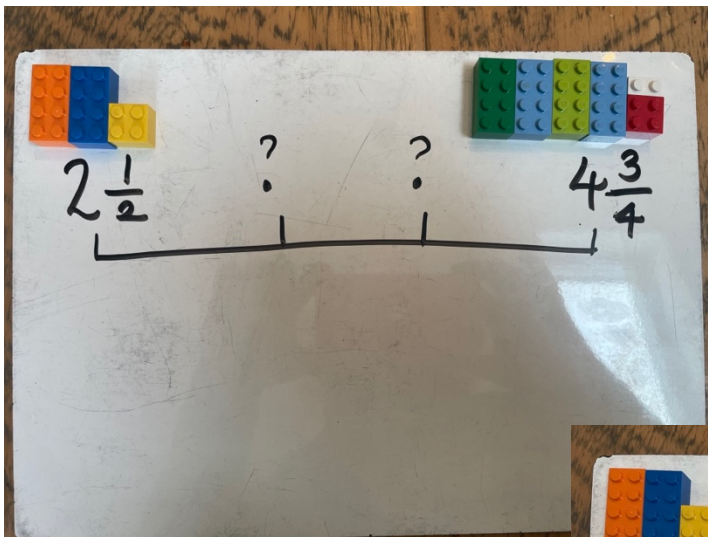
- 1) This number sequence is increasing in intervals of  $\frac{5}{8}$ .  
If we add  $\frac{5}{8}$  to  $3\frac{3}{8}$  you get 4.

What would come next?



- 2) Look at the number sequence below.

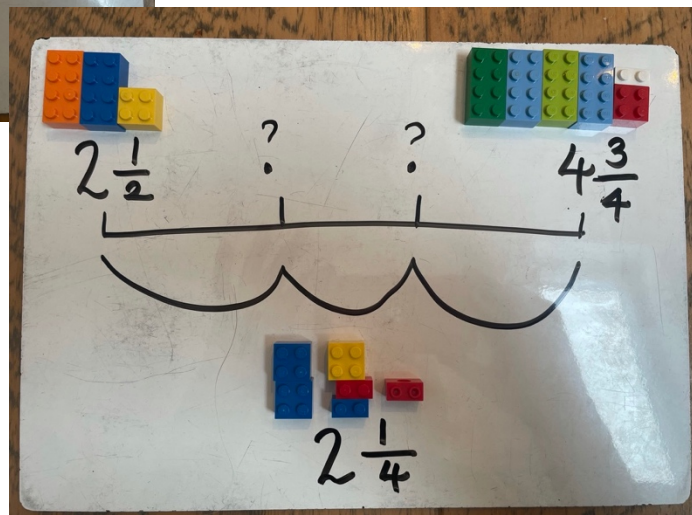
It starts with  $2\frac{1}{2}$  and ends with  $4\frac{3}{4}$ .



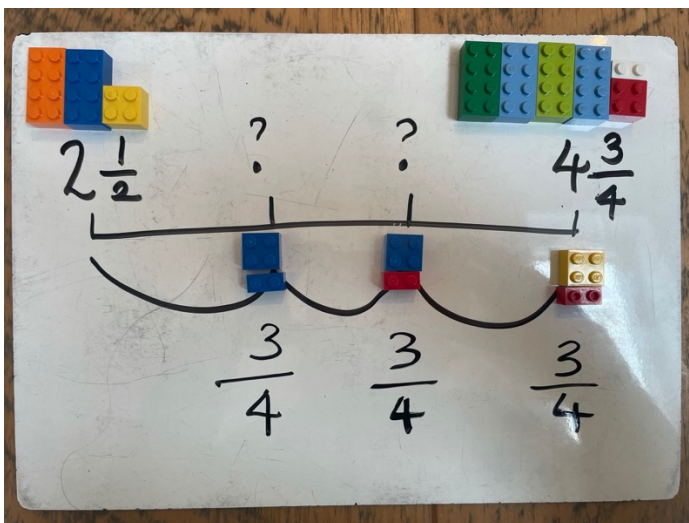
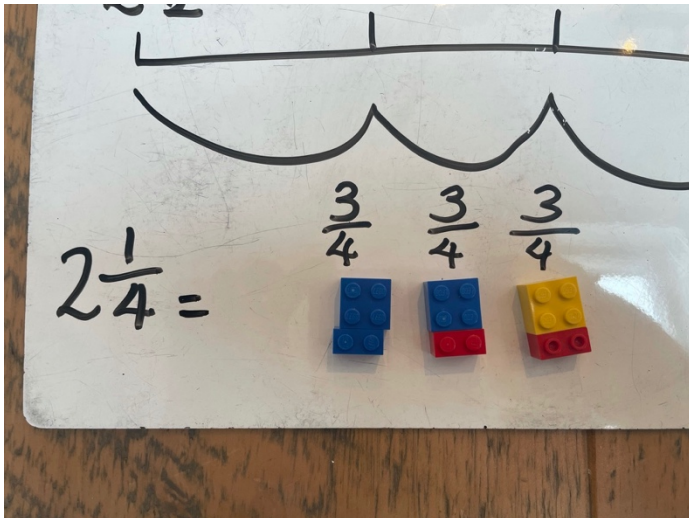
What numbers could go in the sequence?

Let's think about what we need to know.

What is the difference between the two numbers?



Now using the Lego we can work out what we can add to each interval.



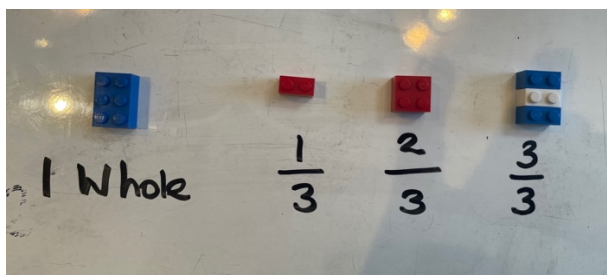
We are increasing by  $\frac{3}{4}$  each time.

What numbers would replace the question marks?

3) Use Lego to work out the mistake in the sequence below.

$2\frac{1}{4}$ , 3,  $3\frac{3}{4}$ ,  $4\frac{1}{4}$ ,  $5\frac{1}{4}$

4) We could use Lego to increase/decrease in thirds.



Use Lego to fill in the gaps:

