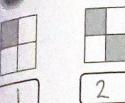
Number sequences

a) Complete the sequence as mixed numbers.

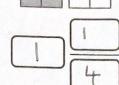


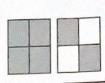


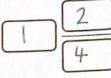












b) Complete the sequence as improper fractions.

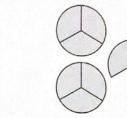


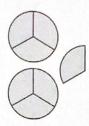


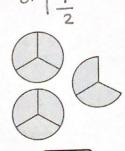














c) Draw diagrams to match this sequence.

 $3\frac{1}{2}$

 $3\frac{1}{4}$

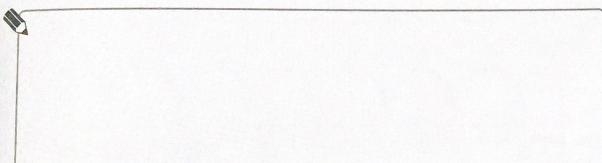
3

 $2\frac{3}{4}$

 $2\frac{1}{2}$

 $2\frac{1}{4}$

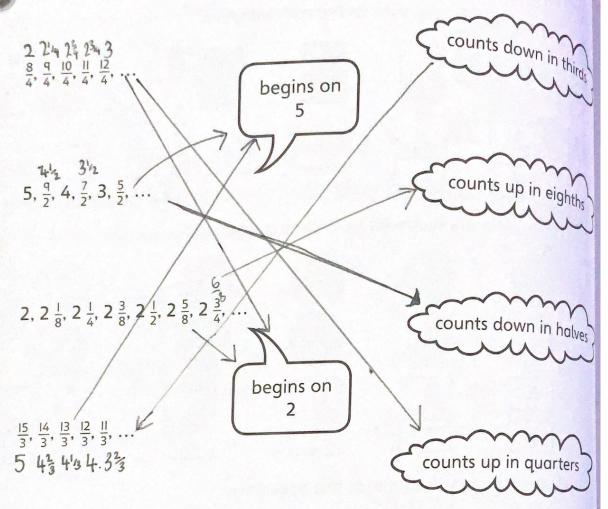
2



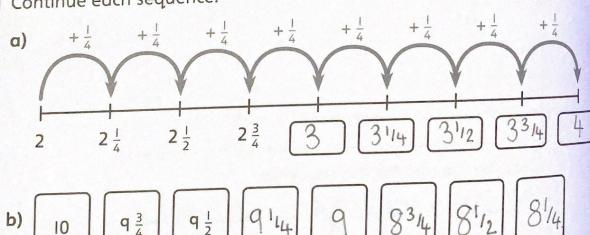
Describe the rule for this sequence.

We are wunting back in quarters

2 Match each sequence with the correct descriptions.



3 Continue each sequence.



Reena is investigating the different ways to write a sequence increasing in sixths between 0 and 1.

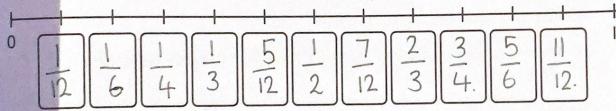


She notices that she can use three different denominators and that there is a pattern.

Explain why the denominators 2 and 3 appear in this number sequence, but the denominator 4 does not.

2 and 3 are foctors of 6 so appear as denominators in the sequence. 4 isn't a factor of 6 so won't appear as a denominator.

b) Label the fractions on this number line. What patterns do you notice in the denominators in this sequence?



All denominators in the sequence are factors of 12.

Reflect

Create a sequence counting down in quarters. Write the sequence in different ways.

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