Blue

Teddy and Rosie are finding the missing numbers in the sequence.

3, ☐, ☐, ☐, ☐, ☐, ☐, ☐, 4

a)

I think the missing fractions are sevenths because there are seven blank number cards.

Do you agree with Teddy?

Explain your answer.

b) Complete the sequence.

3, ☐, ☐, ☐, ☐, ☐, ☐, ☐, 4

c)

I think one of the missing fractions is equivalent to $3\frac{1}{2}$

Is Rosie correct?

Explain how you know.

d) Which other fractions in the sequence can you find equivalent fractions for?

I am thinking of a number sequence. The 1st and 4th terms are consecutive integers.

Write the rule for Amir's sequence.

1) Ryan has created a sequence. Within the sequence, there are mixed numbers containing $\frac{1}{2}$ and $\frac{1}{4}$. However, the sequence is not increasing or decreasing in steps of $\frac{1}{4}$. What could the sequence look like? Give 3 examples.

2) Here are the first and last numbers in a sequence.

What could the counting step be and what could the sequence look like? Give 3 possible sequences.