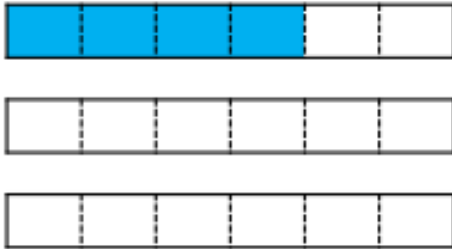


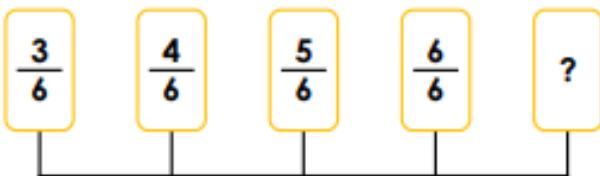
Challenge 1

1a. A sequence increases by $\frac{1}{6}$ each time.
Shade the bar models to show the next two fractions in the sequence.



VF

2a. Which fraction comes next in the sequence below? Circle the correct answer.



$\frac{8}{6}$ $\frac{7}{6}$ $\frac{5}{6}$



VF

3a. What fraction is represented by the bar model below?

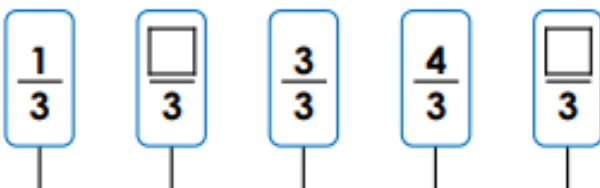


Write the next two fractions needed if the sequence increases by $\frac{1}{8}$ each time.



VF

4a. Complete the sequence.



Rewrite the sequence using mixed numbers.



VF

1b. Choose three fractions to create a sequence which increases by $\frac{1}{4}$ each time.

$\frac{1}{4}$ $\frac{3}{4}$ $\frac{5}{4}$ $\frac{7}{4}$ $\frac{4}{4}$



Place the fractions on the number line and record as mixed numbers below.



PS

3b. Carys has written the following sequence:

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



The next number will be 2.

Is she correct?
Explain your answer.



RS

Challenge 2

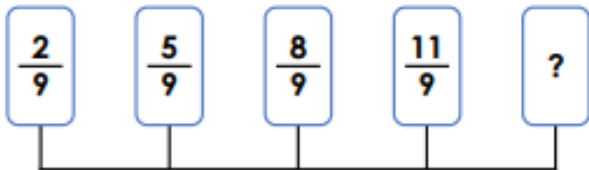
5a. A sequence decreases by $\frac{3}{12}$ each time.

Shade the bar models to show the next two fractions in the sequence.



VF

6a. Which fraction comes next in the sequence below? Circle the correct answer.

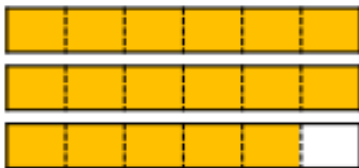


$\frac{14}{9}$ $\frac{12}{9}$ $\frac{15}{9}$



VF

7a. What fraction is represented by the bar model below?

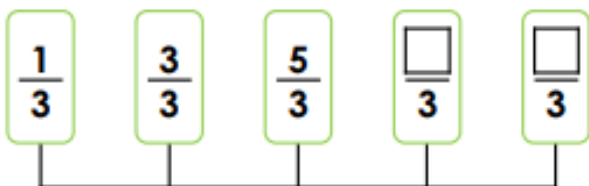


Write the next two fractions needed if the sequence decreases by $\frac{2}{6}$ each time.



VF

8a. Complete the sequence.



Rewrite the sequence using mixed numbers.



VF

4a. Choose three fractions to create a sequence which decreases by $\frac{3}{8}$ each time.

$\frac{1}{8}$ $\frac{11}{8}$ $\frac{5}{8}$ $\frac{8}{8}$ $\frac{4}{8}$



Place the fractions on the number line and record as mixed numbers below.



PS

4b. Choose three fractions to create a sequence which increases by $\frac{2}{5}$ each time.

$\frac{3}{5}$ $\frac{5}{5}$ $\frac{4}{5}$ $\frac{8}{5}$ $\frac{6}{5}$



Place the fractions on the number line and record as mixed numbers below.



PS

6a. Alice has written the following sequence:

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



The next number will be 1.

Is she correct?
Explain your answer.

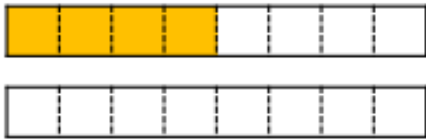


R

Challenge 3

Count in Fractions

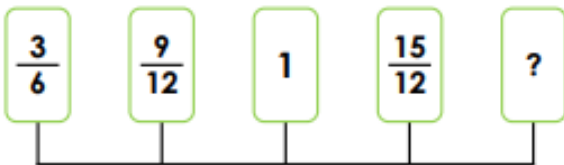
9a. A sequence increases by $\frac{3}{4}$ each time.
Write the next two fractions in the sequence.



_____ and _____

VF

10a. Which fraction comes next in the sequence below? Circle the correct answer.



$\frac{8}{6}$ $\frac{16}{12}$ $\frac{9}{6}$



VF

11a. What fraction is represented by the bar model below?

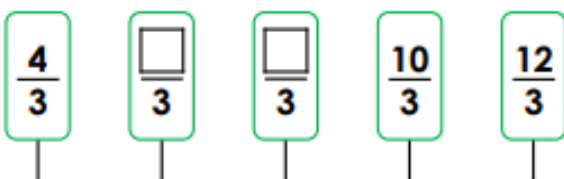


Write the next two fractions needed if the sequence decreases by $\frac{1}{4}$ each time.



VF

12a. Complete the sequence.



Rewrite the sequence using mixed numbers.



VF

7b. Choose three fractions to create a sequence which increases by $\frac{1}{2}$ each time.

$\frac{3}{4}$ $\frac{7}{4}$ $\frac{4}{4}$ $\frac{6}{4}$ $\frac{5}{4}$



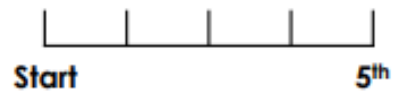
Place the fractions on the number line and record as mixed numbers below.



PS

8b. If a sequence starts at $2\frac{5}{12}$ and the fifth number is less than $1\frac{3}{6}$, what could the number be?

$2\frac{5}{12}$



Explain your answer.



PS

9b. Brad has written the following sequence:

$\frac{5}{7}$, $1\frac{1}{7}$, $1\frac{4}{7}$



The next number will be 2.

Is he correct?
Explain your answer.



R

Extension

Here is a number sequence.

$$\frac{5}{12}, \frac{7}{12}, \frac{10}{12}, \frac{14}{12}, \frac{19}{12}, \text{---}$$

Which fraction would come next?

Can you write the fraction in more than one way?

Circle and correct the mistakes in the sequences.

$$\frac{5}{12}, \frac{8}{12}, \frac{11}{12}, \frac{15}{12}, \frac{17}{12}$$

$$\frac{9}{10}, \frac{7}{10}, \frac{6}{10}, \frac{3}{10}, \frac{1}{10}$$

Play the fraction game for four players.
Place the four fraction cards on the floor.
Each player stands in front of a fraction.
We are going to count up in tenths starting at 0
When you say a fraction, place your foot on your fraction.

$$\frac{1}{10}$$

$$\frac{2}{10}$$

$$\frac{3}{10}$$

$$\frac{5}{10}$$

How can we make 4 tenths?

What is the highest fraction we can count to?

How about if we used two feet?