Varied Fluency
Step 5: Count in Fractions

National Curriculum Objectives:

Mathematics Year 4: (4F4) Add and subtract fractions with the same denominator

Differentiation:

Developing Questions to support counting in fractions when completing sequences in ascending and descending order where the sequence increases by one fraction increment. Using mixed numbers and improper fractions.

Expected Questions to support counting in fractions when completing sequences in ascending and descending order. Using mixed numbers and improper fractions.

Greater Depth Questions to support counting in fractions when completing sequences in ascending and descending order using some denominators that are double or half of the previous fraction. Using mixed numbers and improper fractions.

More Year 4 Fractions resources.

Did you like this resource? Don't forget to review it on our website.

Count in Fractions

Count in Fractions

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

1b. A sequence increases by $\frac{1}{8}$ each time.
Shade the bar models to show the next two fractions in the sequence.
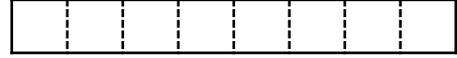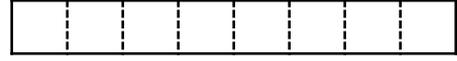
VF

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

$$\frac{3}{6} \quad \frac{4}{6} \quad \frac{5}{6} \quad \frac{6}{6} \quad ?$$
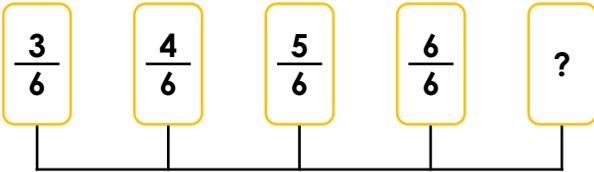
$$\frac{8}{6} \quad \frac{7}{6} \quad \frac{5}{6}$$

VF

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

$$\frac{4}{8} \quad \frac{5}{8} \quad \frac{6}{8} \quad \frac{7}{8} \quad ?$$
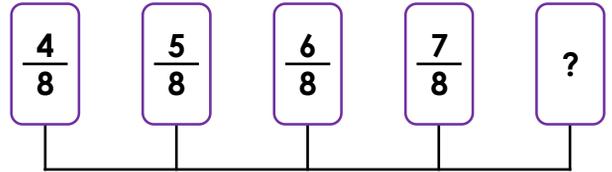
$$\frac{9}{8} \quad \frac{8}{9} \quad \frac{8}{8}$$

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

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

Write the next two fractions needed if the sequence increases by $\frac{1}{3}$ each time.

VF

4a. Complete the sequence.

$$\frac{1}{3} \quad \frac{\square}{3} \quad \frac{3}{3} \quad \frac{4}{3} \quad \frac{\square}{3}$$
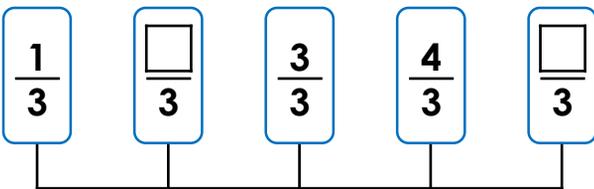
Rewrite the sequence using mixed numbers.

VF

4b. Complete the sequence.

$$\frac{\square}{6} \quad \frac{4}{6} \quad \frac{5}{6} \quad \frac{\square}{6} \quad \frac{7}{6}$$

Rewrite the sequence using mixed numbers.

VF

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**Varied Fluency – Count in Fractions – Year 4 Developing**
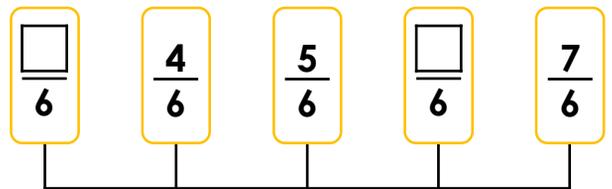
5a. A sequence decreases by $\frac{3}{12}$ each time.

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

5b. A sequence increases by $\frac{2}{6}$ each time.

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

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

$$\frac{2}{9} \quad \frac{5}{9} \quad \frac{8}{9} \quad \frac{11}{9} \quad ?$$
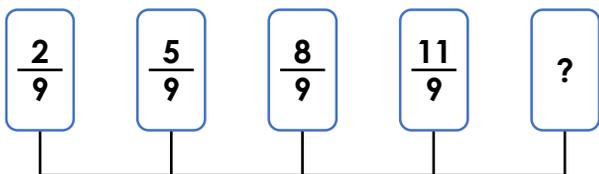
$$\frac{14}{9} \quad \frac{12}{9} \quad \frac{15}{9}$$

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

$$\frac{22}{10} \quad \frac{19}{10} \quad \frac{16}{10} \quad \frac{13}{10} \quad ?$$
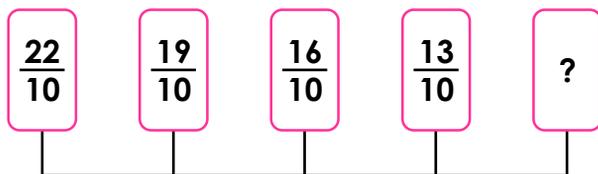
$$\frac{11}{10} \quad \frac{12}{10} \quad \frac{10}{10}$$

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.

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

Write the next two fractions needed if the sequence increases by $\frac{3}{8}$ each time.

**8a.** Complete the sequence.

$$\frac{1}{3} \quad \frac{3}{3} \quad \frac{5}{3} \quad \frac{\square}{3} \quad \frac{\square}{3}$$
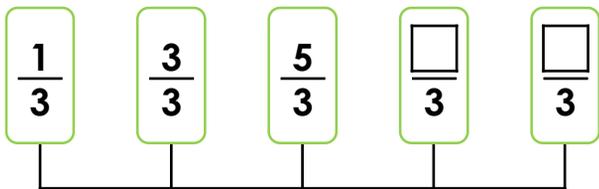
Rewrite the sequence using mixed numbers.

8b. Complete the sequence.

$$\frac{3}{4} \quad \frac{5}{4} \quad \frac{\square}{4} \quad \frac{\square}{4} \quad \frac{11}{4}$$

Rewrite the sequence using mixed numbers.

VF
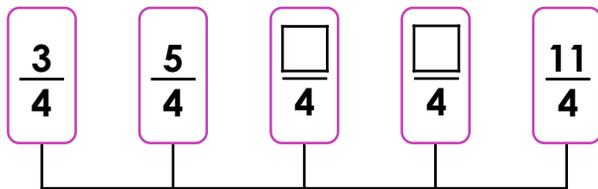
9a. A sequence increases by $\frac{3}{4}$ each time.

Write the next two fractions in the sequence.

_____ and _____

VF
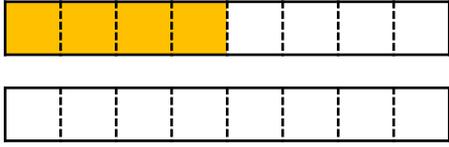
9b. A sequence increases by $\frac{3}{5}$ each time.

Write the next fractions in the sequence.
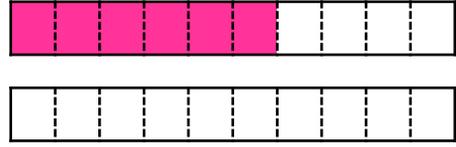
_____ and _____

VF

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

$\frac{3}{6}$ $\frac{9}{12}$ 1 $\frac{15}{12}$ $?$
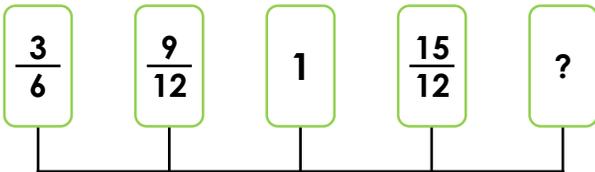
$\frac{8}{6}$ $\frac{16}{12}$ $\frac{9}{6}$

VF

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

$\frac{18}{8}$ $\frac{15}{8}$ $\frac{6}{4}$ $\frac{9}{8}$ $?$
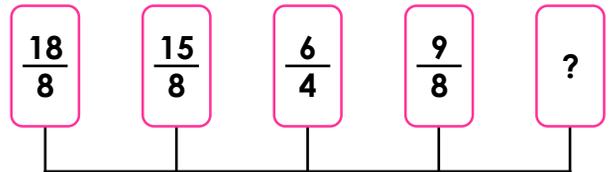
$\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$

VF

11a. What fraction is represented by the bar model below?
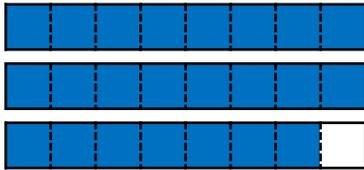
Write the next two fractions needed if the sequence decreases by $\frac{1}{4}$ each time.

VF

11b. What fraction is represented by the bar model below?
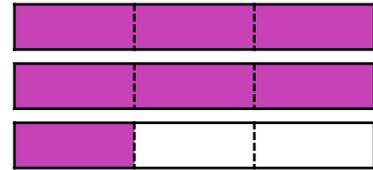
Write the next two fractions needed if the sequence increases by $\frac{4}{6}$ each time.

VF

12a. Complete the sequence.

$\frac{4}{3}$ $\frac{\square}{3}$ $\frac{\square}{3}$ $\frac{10}{3}$ $\frac{12}{3}$
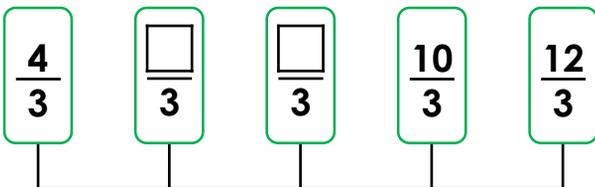
Rewrite the sequence using mixed numbers.

VF

12b. Complete the sequence.
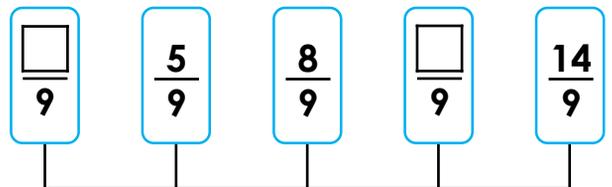
$\frac{\square}{9}$ $\frac{5}{9}$ $\frac{8}{9}$ $\frac{\square}{9}$ $\frac{14}{9}$

Rewrite the sequence using mixed numbers.

VF

Developing

1a. $\frac{5}{6}$ and $\frac{6}{6}$ should be shaded.

2a. $\frac{7}{6}$

3a. $1\frac{3}{8}$; the next two numbers in the sequence are $1\frac{4}{8}$ and $1\frac{5}{8}$.

4a. $\frac{2}{3}$ and $\frac{5}{3}$; the sequence is $\frac{1}{3}$, $\frac{2}{3}$, 1, $1\frac{1}{3}$ and $1\frac{2}{3}$.

Developing

1b. $\frac{6}{8}$ and $\frac{7}{8}$ should be shaded.

2b. 1

3b. $1\frac{1}{3}$; the next two numbers in the sequence are $1\frac{2}{3}$ and 2.

4b. $\frac{3}{6}$ and $\frac{6}{6}$; the sequence is $\frac{3}{6}$, $\frac{4}{6}$, $\frac{5}{6}$, 1 and $1\frac{1}{6}$.

Expected

5a. $\frac{8}{12}$ and $\frac{5}{12}$ should be shaded.

6a. $\frac{14}{9}$

7a. $2\frac{5}{6}$; the next two numbers in the sequence are $2\frac{3}{6}$ and $2\frac{1}{6}$.

8a. $\frac{7}{3}$ and $\frac{9}{3}$; the sequence is $\frac{1}{3}$, 1, $1\frac{2}{3}$, $2\frac{1}{3}$ and 3.

Expected

5b. $\frac{4}{6}$ and $\frac{6}{6}$ should be shaded.

6b. $\frac{10}{10}$

7b. $1\frac{3}{8}$; the next two numbers in the sequence are $1\frac{6}{8}$ and $2\frac{1}{8}$.

8b. $\frac{7}{4}$ and $\frac{9}{4}$; the sequence is $\frac{3}{4}$, $1\frac{1}{4}$, $1\frac{3}{4}$, $2\frac{1}{4}$ and $2\frac{3}{4}$.

Greater Depth

9a. $1\frac{2}{8}$ and 2

10a. $\frac{9}{6}$

11a. $2\frac{7}{8}$; the next two numbers in the sequence are $2\frac{5}{8}$ and $2\frac{3}{8}$.

12a. $\frac{6}{3}$ and $\frac{8}{3}$; the sequence is $1\frac{1}{3}$, 2, $2\frac{2}{3}$, $3\frac{1}{3}$ and 4.

Greater Depth

9b. $1\frac{2}{10}$ and $1\frac{8}{10}$

10b. $\frac{3}{4}$

11b. $2\frac{1}{3}$; the next two numbers in the sequence are 3 and $3\frac{2}{3}$.

12b. $\frac{2}{9}$ and $\frac{11}{9}$; the sequence is $\frac{2}{9}$, $\frac{5}{9}$, $\frac{8}{9}$, $1\frac{2}{9}$ and $1\frac{5}{9}$.

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