

NAME _____

Module 6 Computational Fluency of Fractions
Lesson 2 Adding Fractions with Unlike Denominators

Lesson Objectives

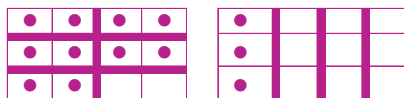
- Find equivalent fractions.
- Model addition of fractions with unlike denominators using diagrams and/or illustrations of manipulatives.
- Develop and use algorithms to add fractions with unlike denominators.

Subtopic 1 Model Adding Fractions with Unlike Denominators

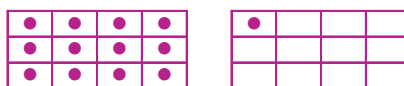
Model using 3×4 egg cartons.

1

$$\frac{5}{6} + \frac{1}{4}$$

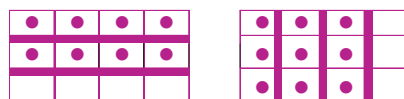


$$1\frac{1}{12}$$

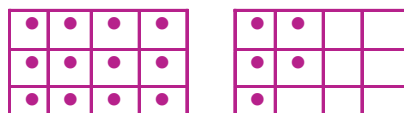


2

$$\frac{2}{3} + \frac{3}{4}$$



$$1\frac{5}{12}$$



Subtopic 2 Adding Fractions with Unlike Denominators

When two or more fractions do not have a common denominator, they have unlike denominators.

Adding Fractions with Unlike Denominators

- Write equivalent fractions using a common denominator.
- Add.
- Write the answer in simplest form.



Grayson uses $\frac{2}{3}$ yard of ribbon for one bow and $\frac{1}{8}$ yard of ribbon for another bow. How much ribbon does Grayson use for both bows?

$$\begin{array}{r} \frac{2}{3} + \frac{1}{8} \\ \frac{2 \cdot 8}{3 \cdot 8} + \frac{1 \cdot 3}{8 \cdot 3} \\ \frac{16}{24} + \frac{3}{24} \\ \frac{16+3}{24} \\ \frac{19}{24} \end{array}$$

Grayson uses $\frac{19}{24}$ yard of ribbon for both bows.