

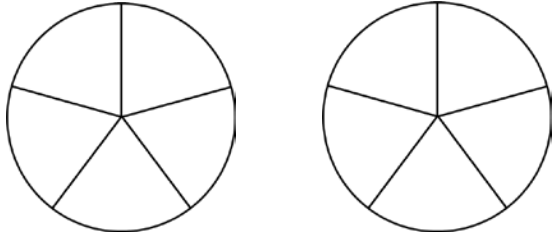
Decomposing Fractions

Name: _____

Decompose:

To _____ the _____
 This can be demonstrated with both _____ and _____.

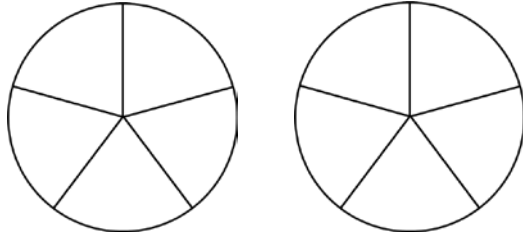
$$\frac{4}{5}$$



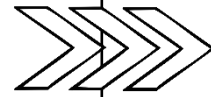
or



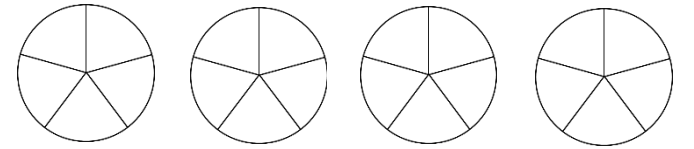
$$\frac{4}{5}$$



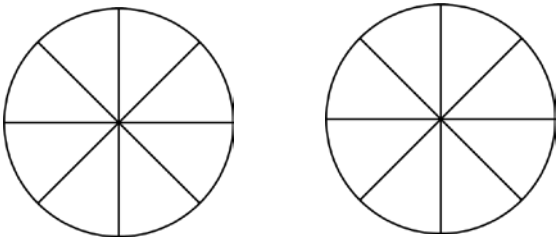
or



$$\frac{4}{5}$$



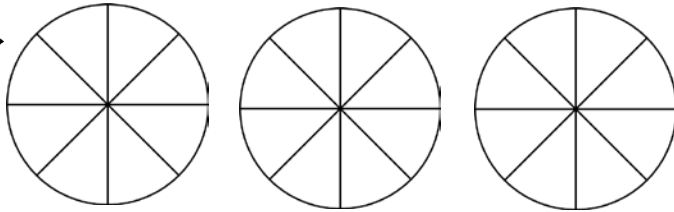
$$\frac{3}{8}$$



or



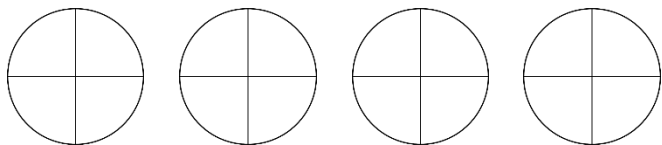
$$\frac{3}{8}$$



$$\frac{6}{8}$$

With a partner (Show 2 ways.)

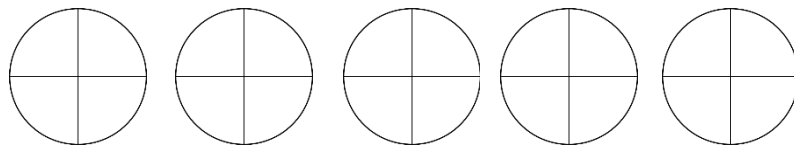
$$2\frac{3}{4}$$



or



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



$$\frac{6}{8}$$

or



$$\begin{array}{r} \cdot \\ \cdot \\ 7 \\ \hline 5 \end{array}$$

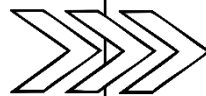
With a partner (Show 3 ways.)

$$\begin{array}{r} 7 \\ \hline 5 \end{array}$$

or



or



$$\begin{array}{r} 7 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 4 \\ \hline 4 \end{array}$$

With a partner (Show 2 ways.)

$$\begin{array}{r} 4 \\ \hline 4 \end{array}$$

or



$$\begin{array}{r} 7 \\ \hline 2 \end{array}$$

Independent (Show 3 ways.)

or



∴

$$\begin{array}{r} 3 \\ \hline 6 \end{array}$$

Independent (Show 2 ways.)

$$\begin{array}{r} 3 \\ \hline 6 \end{array}$$

or



$$\begin{array}{r} 7 \\ \hline 2 \end{array}$$

or



$$\begin{array}{r} 3 \\ \hline 3 \end{array}$$

Independent (Show 2 ways.)

$$\begin{array}{r} 3 \\ \hline 3 \end{array}$$

or



$$\begin{array}{r} 7 \\ \hline 2 \end{array}$$

∴

∴

Decomposing Fractions

Decompose: To break the numbers apart.
 This can be demonstrated with both numbers and fraction models.

$\frac{4}{5} = \frac{1}{5} + \frac{3}{5}$

$\frac{4}{5} = \frac{2}{5} + \frac{2}{5}$

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

$\frac{3}{8} = \frac{1}{8} + \frac{2}{8}$

$\frac{3}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

$\frac{6}{8}$ With a partner (Show 2 ways.)

Accept all combinations:
 $\frac{1}{8} + \frac{5}{8}$
 $\frac{2}{8} + \frac{4}{8}$
 $\frac{3}{8} + \frac{3}{8}$

$2\frac{3}{4} = 1 + 1 + \frac{1}{4} + \frac{2}{4}$

$2\frac{3}{4} = 1 + 1 + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

$\frac{6}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

$\frac{7}{5}$

With a partner (Show 3 ways.)

Accept all combinations:

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

$\frac{2}{5} + \frac{5}{5}$

$\frac{3}{5} + \frac{4}{5}$

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

or



$\frac{7}{5}$

or



$\frac{7}{5}$

$\frac{4}{4}$

With a partner (Show 2 ways.)

Accept all combinations: or

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

$1 + 3 + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

$2 + 2 + \frac{1}{4} + \frac{2}{4}$

$2 + 2 + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$



$\frac{4}{4}$

$\frac{7}{2}$

Independent (Show 3 ways.)

Accept all combinations:

$\frac{1}{2} + \frac{6}{2}$

$\frac{2}{2} + \frac{5}{2}$

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

$1 + 1 + 1 + \frac{1}{2}$

$1 + 2 + \frac{1}{2}$

or



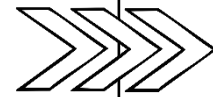
$\frac{3}{6}$

Independent (Show 2 ways.)

$\frac{1}{6} + \frac{2}{6}$

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

or



$\frac{3}{6}$

$\frac{7}{2}$

or



$\frac{3}{3}$

Independent (Show 2 ways.)

$1 + 2 + \frac{1}{3} + \frac{1}{3}$

or



$\frac{3}{3}$

$1 + 1 + 1 + \frac{1}{3} + \frac{1}{3}$

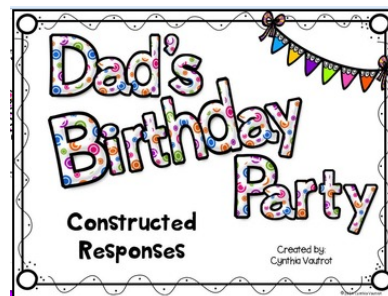
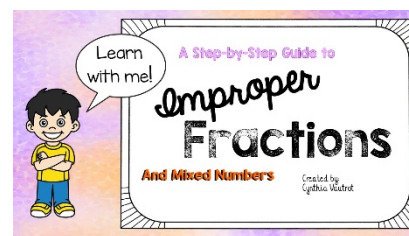
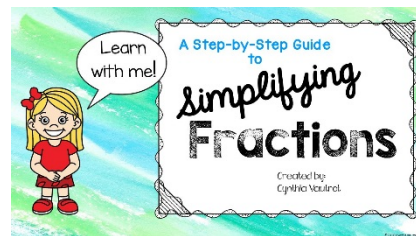
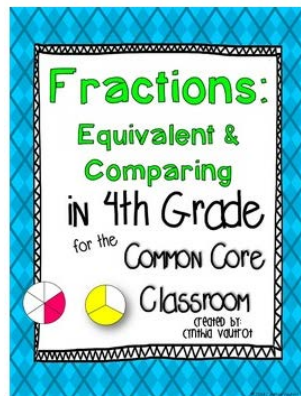
$\frac{7}{2}$

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I hope you and your students enjoyed this Step-by-Step PPT and Companion Worksheet. Like what you see? Please become a follower so you will know when new units are posted.

Here are some more of my products for teaching fractions. Just click on the picture to see the product.

Enjoy!
Cynthia



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