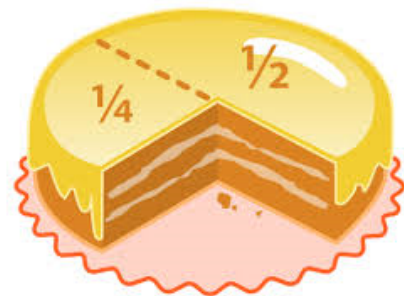
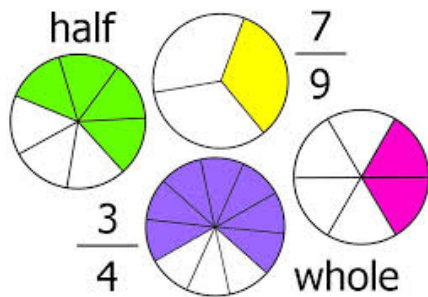


Unit 5

Adding/Subtracting Fractions



Operations with Fractions

fraction strips

unit fraction

related denominators

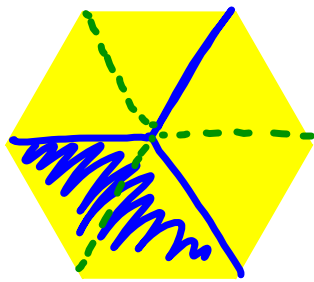
simplest form

unrelated denominators

common denominator

Using Models to Add Fractions

Let's use pattern blocks...



represents
1 whole



represents
1/2 whole

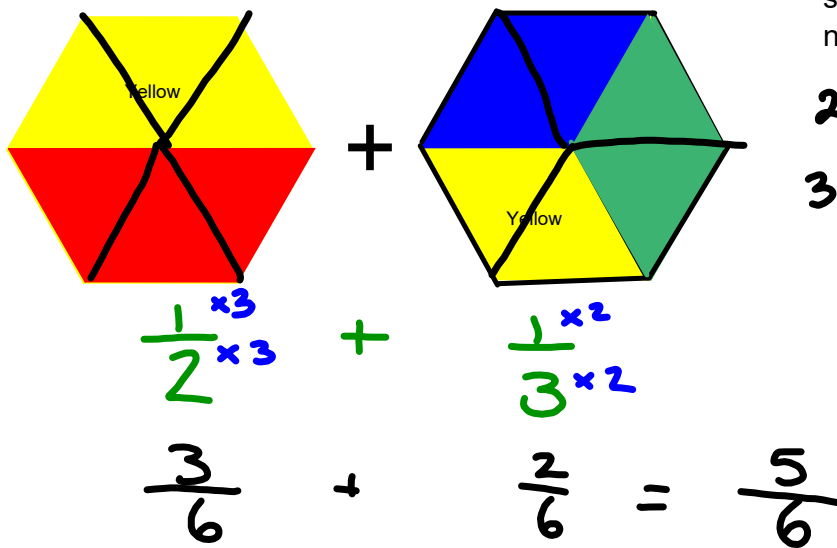


represents
1/3 whole



represents
1/6 whole

What fraction is yellow?

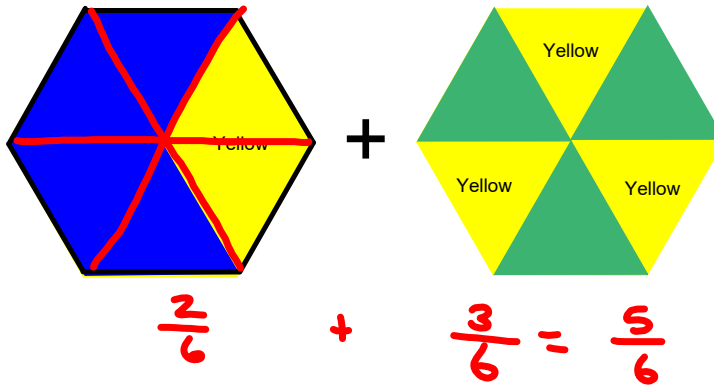


Hint: do they have the same size pieces or the same number of pieces?

2 → 2, 4, 6, 8, 10...

3 → 3, 6, 9, ...

Hint: same number of pieces
what fraction is yellow?

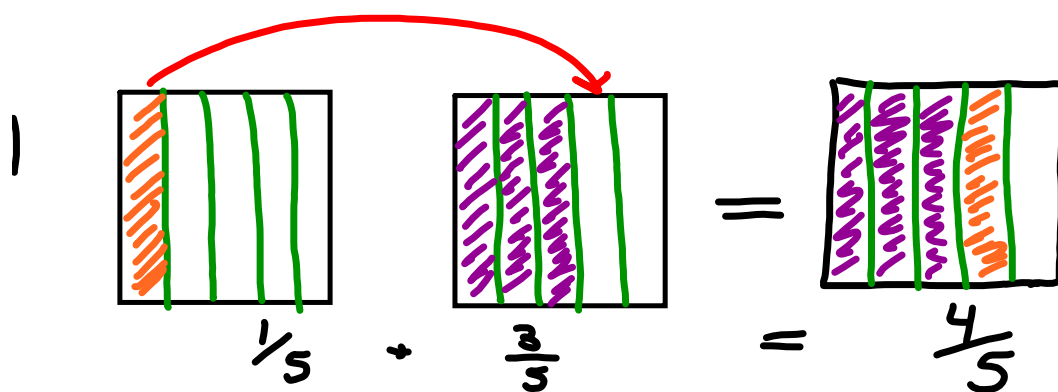


Let's use fraction boxes... (Book will say circles but boxes are easier)

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

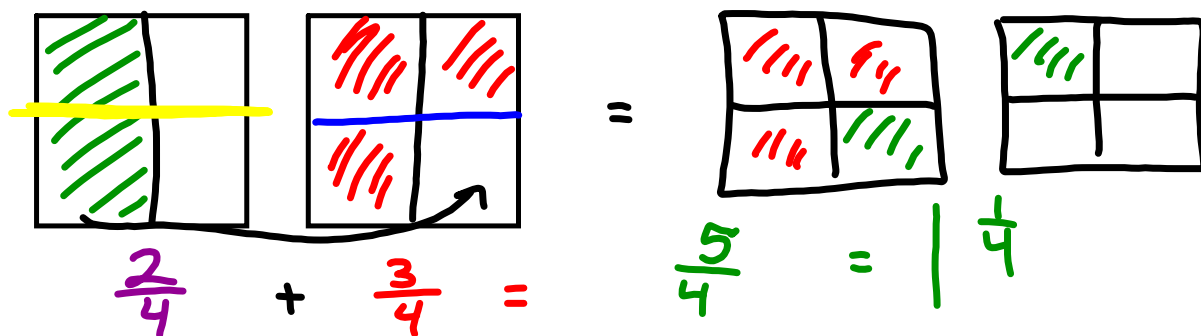
← Shaded

← what whole is cut in to



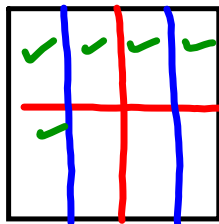
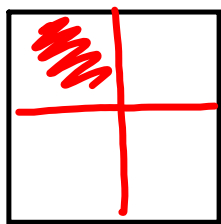
$$\frac{1}{2} + \frac{3}{4}$$

2 → 2, 4, 6, 8...
 4 → 4, 8

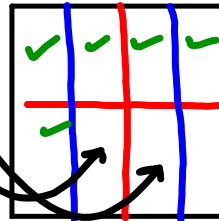
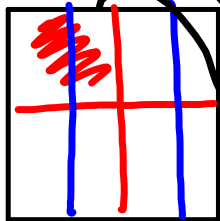


$$\frac{1}{4} + \frac{5}{8} = \frac{7}{8}$$

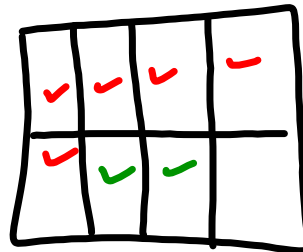
(Note: In the original image, the 1 in the first fraction has a green 'x2' above it, the 4 has a green 'x2' to its left, and the 5 in the second fraction has a red 'x2' to its left.)



OR

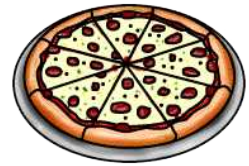


=



Noah and Brett each bought a small pizza.

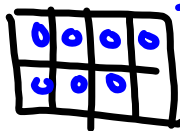
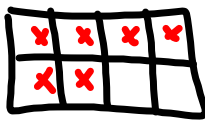
Noah ate $\frac{3}{4}$ of his pizza and Brett ate $\frac{7}{8}$ of his.



How much pizza did Noah and Brett eat together?

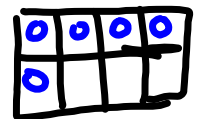
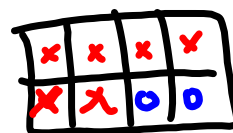
$$\frac{3 \times 2}{4 \times 2} + \frac{7}{8}$$

$$\frac{6}{8} + \frac{7}{8} = \frac{13}{8} = 1 \frac{5}{8}$$



Improper

⇒



Class / Homework

Page 179 #1 *abc* → *make same denominators*
Page 180 #2, #3, → *don't model abc (Find C.D)*

Tomorrow doing worksheet
and Page 180 #5, #7

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

$\times 2$ $\times 3$

$$\frac{4}{6} + \frac{3}{6}$$
$$= \frac{7}{6}$$
$$= 1\frac{1}{6}$$

2 → 2, 4, 6, 8, 10, ...

3 → 3, 6, 9, ...

Same denominators
you add tops only
keep bottom same