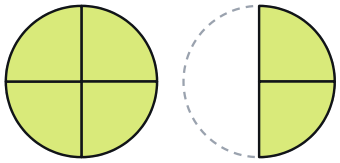
Names (pair) _____ Date _____

Beyond One Whole: Same Denominators

Example



Three quarters and three more quarters: six quarters.

Four quarters fill a whole disc; two are left on the second disc.

$\frac{3}{4} + \frac{3}{4} = \frac{6}{4} = 1\frac{2}{4}$

Remember

When the pieces don't fit on one disc, we **fill a whole disc** and carry on with another. We write the answer as an **improper fraction** and as a **mixed number**.

PART 1 Adding

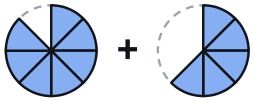
1 ON YOUR OWN Add. Write the answer as an improper fraction and as a mixed number.

a) 

$\frac{3}{4} + \frac{3}{4} = \frac{\square}{4} = \square\frac{\square}{4}$

b) 

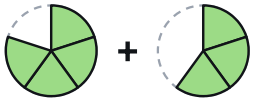
$\frac{5}{6} + \frac{4}{6} = \frac{\square}{6} = \square\frac{\square}{6}$

c) 

$\frac{7}{8} + \frac{5}{8} = \frac{\square}{8} = \square\frac{\square}{8}$

d) 

$\frac{2}{3} + \frac{2}{3} = \frac{\square}{3} = \square\frac{\square}{3}$

e) 

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

f) 

$\frac{9}{10} + \frac{7}{10} = \frac{\square}{10} = \square\frac{\square}{10}$

Names (pair) _____ Date _____

2 IN PAIRS **Build and write.** One student builds the pieces on the discs, the other writes. Swap roles after each row.

$\frac{5}{12} + \frac{11}{12} = \frac{\square}{12} = \square\frac{\square}{12}$

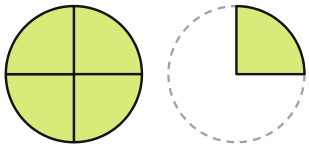
$\frac{7}{9} + \frac{5}{9} = \frac{\square}{9} = \square\frac{\square}{9}$

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

$\frac{5}{6} + \frac{5}{6} = \frac{\square}{6} = \square\frac{\square}{6}$

PART 2 Subtracting

Example



From one whole and one quarter we need to take away three quarters.

We **break the whole disc into quarters**: now we have five quarters.

$1\frac{1}{4} - \frac{3}{4} = \frac{5}{4} - \frac{3}{4} = \frac{2}{4}$

3 ON YOUR OWN Subtract. Break a whole disc into pieces if you need to.

$1\frac{1}{3} - \frac{2}{3} = \frac{\square}{3} - \frac{2}{3} = \frac{\square}{3}$

$1\frac{2}{5} - \frac{4}{5} = \frac{\square}{5} - \frac{4}{5} = \frac{\square}{5}$

$1\frac{1}{6} - \frac{5}{6} = \frac{\square}{6} - \frac{5}{6} = \frac{\square}{6}$

$\frac{7}{4} - \frac{3}{4} = \frac{\square}{4} - \frac{3}{4} = \frac{\square}{4}$

$\frac{11}{8} - \frac{5}{8} = \frac{\square}{8} - \frac{5}{8} = \frac{\square}{8}$

$2 - \frac{3}{4} = \frac{\square}{4} - \frac{3}{4} = \frac{\square}{4}$

Names (group) _____ Date _____

4 IN A GROUP **More or less than 1?** Estimate first, then work it out and check with the discs. Each member of the group explains two sums.

Sum	Estimate	Answer	✓
$\frac{1}{4} + \frac{2}{4}$	< 1 / = 1 / > 1	$\frac{\square}{4}$	
$\frac{3}{5} + \frac{3}{5}$	< 1 / = 1 / > 1	$\frac{\square}{5}$	
$\frac{5}{8} + \frac{2}{8}$	< 1 / = 1 / > 1	$\frac{\square}{8}$	
$\frac{7}{12} + \frac{6}{12}$	< 1 / = 1 / > 1	$\frac{\square}{12}$	
$\frac{4}{9} + \frac{5}{9}$	< 1 / = 1 / > 1	$\frac{\square}{9}$	
$\frac{2}{3} + \frac{2}{3}$	< 1 / = 1 / > 1	$\frac{\square}{3}$	
$\frac{5}{10} + \frac{4}{10}$	< 1 / = 1 / > 1	$\frac{\square}{10}$	
$\frac{5}{6} + \frac{2}{6}$	< 1 / = 1 / > 1	$\frac{\square}{6}$	

5 ON YOUR OWN **Exit card.** $\frac{5}{6} + \frac{5}{6} = \frac{\square}{6} = \square \frac{\square}{6}$