Names (pair) _____ Date _____

Adding Mixed Numbers

Example



First add the whole discs: 2 + 1 = 3.

Then add the pieces: $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$.

$$2\frac{1}{4} + 1\frac{2}{4} = (2 + 1) + \left(\frac{1}{4} + \frac{2}{4}\right) = 3 + \frac{3}{4} = 3\frac{3}{4}$$

1 ON YOUR OWN Build both numbers with discs and add. Write the wholes and the parts.

a)  $2\frac{1}{4} + 1\frac{2}{4} = \square + \frac{\square}{4} = \square\,\frac{\square}{4}$

b)  $1\frac{1}{3} + 2\frac{1}{3} = \square + \frac{\square}{3} = \square\,\frac{\square}{3}$

c)  $3\frac{2}{5} + 1\frac{2}{5} = \square + \frac{\square}{5} = \square\,\frac{\square}{5}$

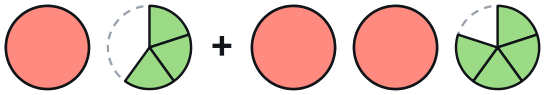
d)  $2\frac{1}{6} + 2\frac{4}{6} = \square + \frac{\square}{6} = \square\,\frac{\square}{6}$

e)  $1\frac{3}{8} + 3\frac{4}{8} = \square + \frac{\square}{8} = \square\,\frac{\square}{8}$

f)  $4\frac{1}{5} + 2\frac{3}{5} = \square + \frac{\square}{5} = \square\,\frac{\square}{5}$

Names (pair) _____ Date _____

Example



Wholes: $1 + 2 = 3$. Parts: $\frac{3}{5} + \frac{4}{5} = \frac{7}{5}$.

Five fifths fill one more disc: $\frac{7}{5} = 1\frac{2}{5}$.

$$1\frac{3}{5} + 2\frac{4}{5} = 3 + \frac{7}{5} = 3 + 1\frac{2}{5} = 4\frac{2}{5}$$

Remember

To add mixed numbers, **add the wholes first, then the parts.** If the parts make more than one whole, **fill another disc.**

2 IN PAIRS **Builder and recorder.** The builder builds with discs and fills wholes, the recorder writes each step. Swap roles in every row.

a) $2\frac{2}{3} + 1\frac{2}{3} = \square + \frac{\square}{3} = \square + \square\frac{\square}{3} = \square\frac{\square}{3}$

b) $3\frac{4}{5} + 1\frac{3}{5} = \square + \frac{\square}{5} = \square + \square\frac{\square}{5} = \square\frac{\square}{5}$

c) $2\frac{5}{8} + 1\frac{6}{8} = \square + \frac{\square}{8} = \square + \square\frac{\square}{8} = \square\frac{\square}{8}$

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

Names (group) _____ Date _____

3 IN A GROUP **Between which numbers?** First estimate which two whole numbers the sum lies between, then work it out. Each member of the group explains two sums.

Sum	Estimate	Answer
$2\frac{1}{3} + 2\frac{1}{3}$	between ☐ and ☐	☐ $\frac{\square}{3}$
$1\frac{4}{5} + 2\frac{3}{5}$	between ☐ and ☐	☐ $\frac{\square}{5}$
$3\frac{1}{8} + 1\frac{6}{8}$	between ☐ and ☐	☐ $\frac{\square}{8}$
$2\frac{7}{10} + 1\frac{6}{10}$	between ☐ and ☐	☐ $\frac{\square}{10}$
$1\frac{5}{9} + 1\frac{8}{9}$	between ☐ and ☐	☐ $\frac{\square}{9}$
$5\frac{2}{7} + 1\frac{4}{7}$	between ☐ and ☐	☐ $\frac{\square}{7}$

★ ON YOUR OWN **Exit card.** $3\frac{2}{3} + 1\frac{2}{3} = \square\frac{\square}{3}$