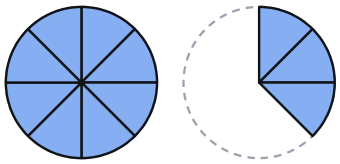
Names (pair) _____ Date _____

Adding: Related Denominators

Example



Exchange the quarters for eighths: $\frac{3}{4} = \frac{6}{8}$.

Six eighths and five eighths make eleven eighths. Eight eighths fill one disc.

$$\frac{3}{4} + \frac{5}{8} = \frac{6}{8} + \frac{5}{8} = \frac{11}{8} = 1\frac{3}{8}$$

Remember

First **exchange the bigger pieces for smaller ones**, then add the pieces of the same size, and finally **fill whole discs**.

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

a) $\frac{3}{4} + \frac{5}{8} = \frac{\square}{8} + \frac{5}{8} = \frac{\square}{8} = \square\frac{\square}{8}$

b) $\frac{2}{3} + \frac{5}{6} = \frac{\square}{6} + \frac{5}{6} = \frac{\square}{6} = \square\frac{\square}{6}$

c) $\frac{1}{2} + \frac{7}{10} = \frac{\square}{10} + \frac{7}{10} = \frac{\square}{10} = \square\frac{\square}{10}$

d) $\frac{5}{6} + \frac{7}{12} = \frac{\square}{12} + \frac{7}{12} = \frac{\square}{12} = \square\frac{\square}{12}$

e) $\frac{3}{5} + \frac{7}{10} = \frac{\square}{10} + \frac{7}{10} = \frac{\square}{10} = \square\frac{\square}{10}$

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

Names (group) _____ Date _____

2 IN PAIRS **Builder and recorder.** The builder builds and exchanges the pieces, the recorder writes each step. Swap roles in every row.

a) $\frac{7}{8} + \frac{3}{4} = \frac{7}{8} + \frac{\square}{8} = \frac{\square}{8} = \square\,\frac{\square}{8}$

b) $\frac{5}{6} + \frac{2}{3} = \frac{5}{6} + \frac{\square}{6} = \frac{\square}{6} = \square\,\frac{\square}{6}$

c) $\frac{3}{4} + \frac{7}{12} = \frac{\square}{12} + \frac{7}{12} = \frac{\square}{12} = \square\,\frac{\square}{12}$

d) $\frac{4}{5} + \frac{9}{10} = \frac{\square}{10} + \frac{9}{10} = \frac{\square}{10} = \square\,\frac{\square}{10}$

3 IN A GROUP **Pizza for the class.** Ana ate $\frac{3}{4}$ of a pizza, Luka $\frac{5}{8}$, and Mia $\frac{3}{8}$ of a pizza. How much pizza did they eat altogether? How many whole pizzas did they have to order? Build it with discs and explain.

$\frac{3}{4} + \frac{5}{8} + \frac{3}{8} = \frac{\square}{8} + \frac{5}{8} + \frac{3}{8} = \frac{\square}{8} = \square\,\frac{\square}{8}$

They ordered $\square$ pizzas.

4 ON YOUR OWN **Exit card.** $\frac{5}{6} + \frac{2}{3} = \frac{5}{6} + \frac{\square}{6} = \frac{\square}{6} = \square\,\frac{\square}{6}$