Names (pair) _____ Date _____

Fill the Whole

PART 1 A game for two

Rules

1. Cut out the cards of one set (page 2), shuffle them and put them face down. Each player has an empty disc.
2. Take turns to draw one card and put that piece on your disc.
3. Write in the table what you had, the card and what you have now. Exchange pieces if needed, for example $\frac{1}{2} + \frac{1}{8} = \frac{4}{8} + \frac{1}{8} = \frac{5}{8}$.
4. If a card would go past one whole disc, put it at the bottom of the pile and miss a turn.
5. The first player to fill **exactly one whole** wins. Your partner checks every line.

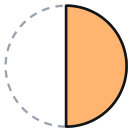
Player A: _____

	I have	Card	Now I have
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			

Player B: _____

	I have	Card	Now I have
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			

✂ Cut out the cards. Set A has eighths, quarters and halves. Set B has twelfths, sixths and thirds. Use only one set in a game.

A $\frac{1}{2}$ 	A $\frac{1}{2}$ 	A $\frac{1}{2}$ 	A $\frac{1}{4}$ 
A $\frac{1}{4}$ 	A $\frac{1}{4}$ 	A $\frac{1}{4}$ 	A $\frac{3}{4}$ 
A $\frac{1}{8}$ 	A $\frac{1}{8}$ 	A $\frac{1}{8}$ 	A $\frac{1}{8}$ 
A $\frac{3}{8}$ 	A $\frac{3}{8}$ 	A $\frac{3}{8}$ 	A $\frac{5}{8}$ 
B $\frac{1}{3}$ 	B $\frac{1}{3}$ 	B $\frac{1}{3}$ 	B $\frac{2}{3}$ 
B $\frac{1}{6}$ 	B $\frac{1}{6}$ 	B $\frac{1}{6}$ 	B $\frac{1}{6}$ 
B $\frac{1}{6}$ 	B $\frac{5}{6}$ 	B $\frac{1}{12}$ 	B $\frac{1}{12}$ 
B $\frac{1}{12}$ 	B $\frac{5}{12}$ 	B $\frac{5}{12}$ 	B $\frac{7}{12}$ 

Names (pair) _____ Date _____

PART 2 Problems for another pair

1 **In pairs.** Make up two addition and two subtraction problems with related denominators. The result must be at most one whole. Write the answers on a separate sheet and give this sheet to another pair. Then compare the answers.

1 Addition

2 Addition

3 Subtraction

4 Subtraction

PART 3 On your own, without discs

2 Work it out. Use the discs only to check, and tick the problems you checked.

a) $\frac{1}{3} + \frac{1}{6} = \frac{\square}{\square}$ ☐

b) $\frac{3}{8} + \frac{1}{4} = \frac{\square}{\square}$ ☐

c) $\frac{1}{2} + \frac{5}{12} = \frac{\square}{\square}$ ☐

d) $\frac{2}{5} + \frac{3}{10} = \frac{\square}{\square}$ ☐

e) $\frac{3}{4} - \frac{1}{8} = \frac{\square}{\square}$ ☐

f) $\frac{1}{2} - \frac{1}{6} = \frac{\square}{\square}$ ☐

g) $\frac{5}{6} - \frac{2}{3} = \frac{\square}{\square}$ ☐

h) $\frac{11}{12} - \frac{3}{4} = \frac{\square}{\square}$ ☐

How am I doing?

- ☐ I can do it without discs.
- ☐ I need the discs to exchange pieces.
- ☐ I need help.