Deepen Activities

1 Jamie, Ambika and Lee are sharing out these fractions cards.

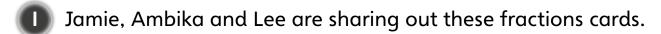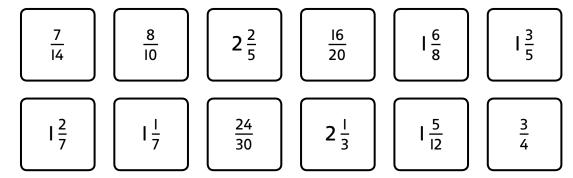|					
$\frac{7}{14}$	$\frac{8}{10}$	$2\frac{2}{5}$	$\frac{16}{20}$	$1\frac{6}{8}$	$1\frac{3}{5}$
$1\frac{2}{7}$	$1\frac{1}{7}$	$\frac{24}{30}$	$2\frac{1}{3}$	$1\frac{5}{12}$	$\frac{3}{4}$

- Jamie says, 'I don't want any fraction cards that equal $\frac{3}{4}$.'

- Ambika says, 'I only want fraction cards that are less than $1\frac{1}{4}$.'

- Lee says, 'I only want fractions that cannot be simplified.'

How can they share the cards equally?

2 Lexi is adding pairs of different unit fractions together. She says, 'Sometimes I make a total that is a different unit fraction. For example, $\frac{1}{3} + \frac{1}{6} = \frac{1}{2}$.'

a) Find pairs of unit fractions that make $\frac{1}{3}, \frac{1}{4}, \frac{1}{5}$ and $\frac{1}{6}$. Explain your answers.

b) How many solutions can you find to this calculation?

$$\frac{\square}{20} = \frac{1}{\square} + \frac{1}{\square}$$

3 Use only these digits to make two fractions with the largest possible total. Explain how you did it.

4	**5**	**6**	**8**