

## Yr 4 Decimals and Fractions Unit 2 (4493)

### Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

#### Day 1 Fractions equivalent to $\frac{1}{2}$ and $\frac{1}{4}$ Sheet 1

Working towards ARE / Working at ARE / Greater Depth

#### Day 2 Equivalent fractions Sheet 1

Working towards ARE / Working at ARE / Greater Depth

Working at ARE to find 4 more pairs of equivalent fractions.

Greater Depth as for Working at ARE and complete the challenge.

#### Day 3 Adding and subtracting fractions Sheet 1

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE complete at least the first four additions and subtractions.

Working at ARE complete all calculations.

Greater Depth should also attempt the challenge.

# Fractions equivalent to $\frac{1}{2}$ and $\frac{1}{4}$

## Sheet 1

Draw a circle round all the fractions which are equivalent to  $\frac{1}{2}$ .

Draw a square round all the fractions which are equivalent to  $\frac{1}{4}$ .

$$\frac{2}{4}$$

$$\frac{3}{4}$$

$$\frac{6}{12}$$

$$\frac{5}{20}$$

$$\frac{20}{40}$$

$$\frac{2}{8}$$

$$\frac{4}{10}$$

$$\frac{3}{12}$$

$$\frac{2}{6}$$

$$\frac{8}{12}$$

$$\frac{2}{5}$$

$$\frac{3}{6}$$

$$\frac{4}{8}$$

$$\frac{10}{40}$$

$$\frac{9}{18}$$

$$\frac{8}{16}$$

$$\frac{10}{20}$$

$$\frac{5}{10}$$

$$\frac{2}{3}$$

$$\frac{4}{16}$$

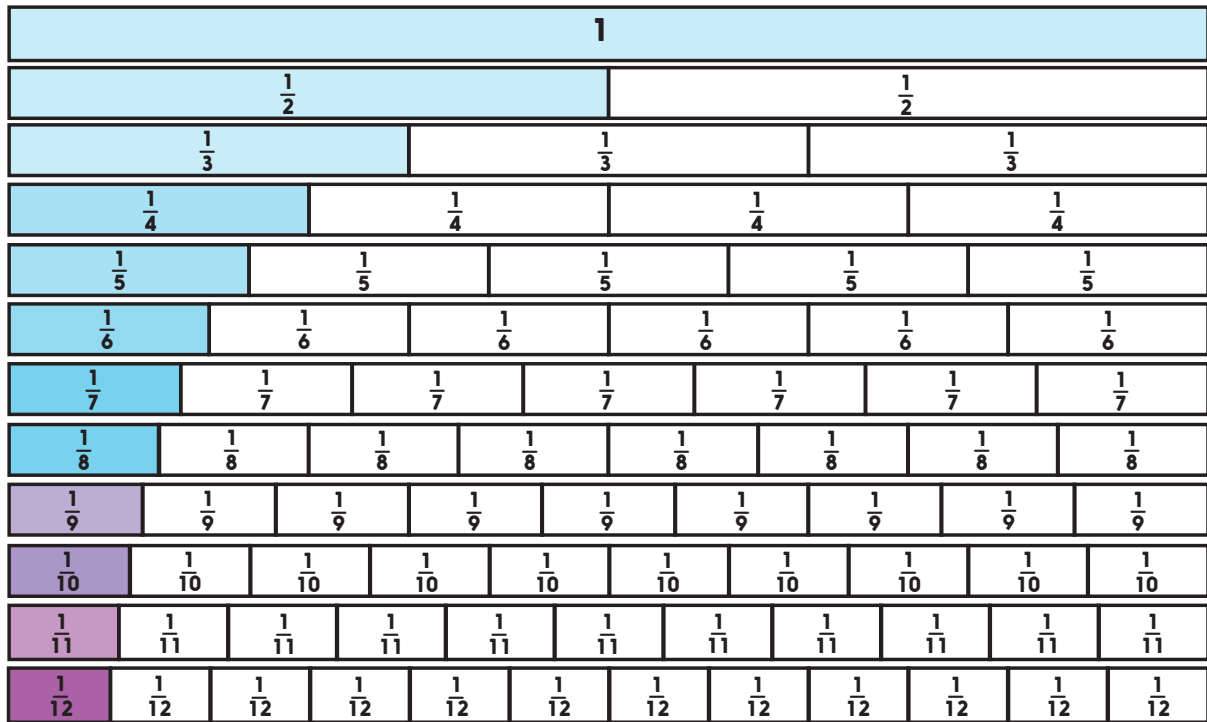
### Challenge

Write at least two more fractions equivalent to  $\frac{1}{2}$  and two more equivalent to  $\frac{1}{4}$ .

# Equivalent fractions

## Sheet 1

Use the fraction wall to help you to write pairs of equivalent fractions.



$$\frac{2}{8} \equiv \frac{1}{\square}$$

$$\frac{6}{8} \equiv \frac{\square}{4}$$

$$\frac{3}{9} \equiv \frac{1}{\square}$$

$$\frac{6}{9} \equiv \frac{\square}{3}$$

$$\frac{2}{12} \equiv \frac{1}{\square}$$

$$\frac{3}{12} \equiv \frac{1}{\square}$$

$$\frac{4}{12} \equiv \frac{1}{\square}$$

$$\frac{6}{12} \equiv \frac{1}{\square}$$

$$\frac{4}{12} \equiv \frac{\square}{6}$$

$$\frac{10}{12} \equiv \frac{\square}{6}$$

$$\frac{8}{12} \equiv \frac{\square}{3}$$

$$\frac{9}{12} \equiv \frac{\square}{4}$$

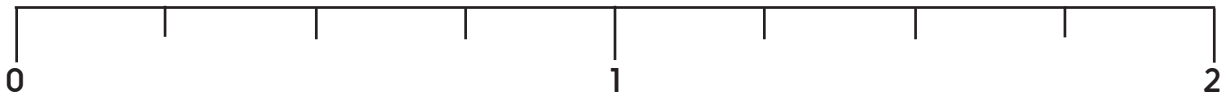
### Challenge

How many more rows would we need to draw on the fraction wall to complete this pair of equivalent fractions:  $\frac{5}{7} \equiv \frac{10}{\square}$ ?

# Adding and subtracting fractions

## Sheet 1

Use fraction lines to help you work out the answers to these additions and subtractions.



$$\frac{3}{4} + \frac{3}{4} = \boxed{\phantom{000}}$$

$$\frac{5}{6} - \frac{2}{6} = \boxed{\phantom{000}}$$

$$\frac{3}{5} + \frac{2}{5} = \boxed{\phantom{000}}$$

$$\frac{4}{5} - \frac{2}{5} = \boxed{\phantom{000}}$$

$$\frac{5}{6} + \frac{1}{6} = \boxed{\phantom{000}}$$

$$\frac{3}{4} - \frac{1}{4} = \boxed{\phantom{000}}$$

$$\frac{4}{5} + \frac{2}{5} = \boxed{\phantom{000}}$$

$$1\frac{1}{5} - \frac{3}{5} = \boxed{\phantom{000}}$$

$$1\frac{1}{4} + \frac{3}{4} = \boxed{\phantom{000}}$$

$$1\frac{1}{4} - \frac{3}{4} = \boxed{\phantom{000}}$$

$$\frac{5}{6} + \frac{2}{6} = \boxed{\phantom{000}}$$

$$1\frac{2}{6} - \frac{4}{6} = \boxed{\phantom{000}}$$

$$\frac{4}{5} + \frac{4}{5} = \boxed{\phantom{000}}$$

$$1\frac{3}{6} - \frac{5}{6} = \boxed{\phantom{000}}$$

$$\frac{2}{4} + 1\frac{3}{6} = \boxed{\phantom{000}}$$

$$1\frac{5}{6} - 1\frac{1}{2} = \boxed{\phantom{000}}$$

### Challenge

Work with a partner to make up at least four new additions and subtractions.

# Decimals and fractions

## Answers

### Day 1 Fractions equivalent to $\frac{1}{2}$ and $\frac{1}{4}$ Sheet 1

$\frac{2}{4}$        $\frac{3}{4}$        $\frac{6}{12}$        $\frac{5}{20}$   
 $\frac{20}{40}$        $\frac{2}{8}$        $\frac{4}{10}$        $\frac{3}{12}$   
 $\frac{2}{6}$        $\frac{8}{12}$        $\frac{2}{5}$        $\frac{3}{6}$   
 $\frac{4}{8}$        $\frac{10}{40}$        $\frac{9}{18}$   
 $\frac{8}{16}$        $\frac{10}{20}$        $\frac{2}{3}$        $\frac{4}{16}$

#### Challenge

Other fractions equivalent to  $\frac{1}{2}$  are  $\frac{6}{12}$ ,  $\frac{7}{14}$ ,  $\frac{8}{16}$ ,  $\frac{11}{22}$ , etc.

Other fractions equivalent to  $\frac{1}{4}$  are  $\frac{6}{24}$ ,  $\frac{7}{28}$ ,  $\frac{8}{32}$ ,  $\frac{9}{36}$ , etc.

### Day 2 Equivalent fractions Sheet 1

$\frac{2}{8} \equiv \frac{1}{4}$        $\frac{6}{8} \equiv \frac{3}{4}$        $\frac{3}{9} \equiv \frac{1}{3}$        $\frac{6}{9} \equiv \frac{2}{3}$   
 $\frac{2}{12} \equiv \frac{1}{6}$        $\frac{3}{12} \equiv \frac{1}{4}$        $\frac{4}{12} \equiv \frac{1}{3}$        $\frac{6}{12} \equiv \frac{1}{2}$   
 $\frac{4}{12} \equiv \frac{2}{6}$        $\frac{10}{12} \equiv \frac{5}{6}$        $\frac{8}{12} \equiv \frac{2}{3}$        $\frac{9}{12} \equiv \frac{3}{4}$

#### Challenge

We would need two more rows:  
 $\frac{1}{13}$ s and  $\frac{1}{14}$ s to give  $\frac{5}{7} \equiv \frac{10}{14}$

### Day 3 Adding and subtracting fractions Sheet 1

$\frac{3}{4} + \frac{3}{4} = 1\frac{1}{2}$        $\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$   
 $\frac{3}{5} + \frac{2}{5} = 1$        $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$   
 $\frac{5}{6} + \frac{1}{6} = 1$        $\frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$   
 $\frac{4}{5} + \frac{2}{5} = 1\frac{1}{5}$        $1\frac{1}{5} - \frac{3}{5} = \frac{3}{5}$   
 $1\frac{1}{4} + \frac{3}{4} = 2$        $1\frac{1}{4} - \frac{3}{4} = \frac{2}{4} = \frac{1}{2}$   
 $\frac{5}{6} + \frac{2}{6} = 1\frac{1}{6}$        $1\frac{2}{6} - \frac{4}{6} = \frac{4}{6} = \frac{2}{3}$   
 $\frac{4}{5} + \frac{4}{5} = 1\frac{3}{5}$        $1\frac{3}{6} - \frac{5}{6} = \frac{4}{6} = \frac{2}{3}$   
 $\frac{2}{4} + 1\frac{3}{6} = 2$        $1\frac{5}{6} - 1\frac{3}{6} = \frac{2}{6} = \frac{1}{3}$