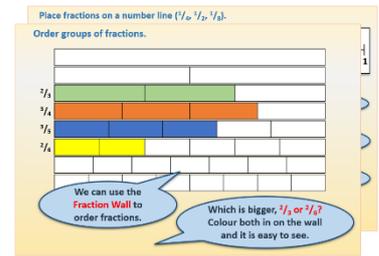


# Year 3: Week 3, Day 3

## Pairs of fractions that add to 1

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.

Practice Sheet (Mild)

Poise value addition and subtraction

1. $4.538 + 0.2$	2. $4.538 + 0.03$
3. $4.538 - 0.004$	4. $4.538 - 0.02$
5. $6.231 + 0.11$	6. $6.231 + 0.101$
7. $6.231 + 0.011$	8. $5.846 - 0.211$
9. $5.846 - 0.13$	10. $5.846 - 0.013$
11. $5.846 - 0.204$	12. $4.789 + 0.001$

Challenge

Start at 4.532  
Add tenths and hundredths to make an addition chain ending with the number 4.627  
Start at 10.759  
Subtract tenths, hundredths, and thousandths to make a subtraction chain ending with the number 9.782

3. Have I mastered the topic? Some questions to **Check your understanding**. Fold the page to hide the answers!

Identify the value of the '4' in the following numbers:

(a) 3.407  
(b) 4.821  
(c) 0.043  
(d) 5.104  
(e) 48,739

\_\_\_\_\_

How many times must Dan multiply 0.048 by 10 to get 48,000?

\_\_\_\_\_

What number is one hundred times smaller than 0.4?

## Learning Reminders

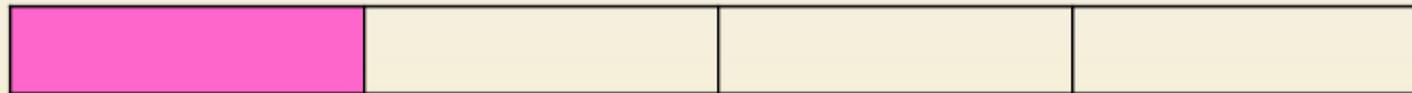
Find pairs of fractions with a total of 1.



$$\frac{1}{2} + \frac{1}{2} = 1$$



$$\frac{1}{3} + \frac{2}{3} = 1$$



$$\frac{1}{4} + \frac{3}{4} = 1$$

Each fraction strip is divided into two or more fractions that add to a total of 1 whole.

## Learning Reminders

Find pairs of fractions with a total of 1.

1 Whole



$$\frac{1}{5} + \frac{4}{5} = 1$$

What other addition sentences could you write, using fifths, with a total of 1 ?



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



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



$$\frac{4}{5} + \frac{1}{5} = 1$$

## Learning Reminders

Find pairs of fractions with a total of 1.



How could the sixths be split to make 1 whole?

1 Whole



Can you write 5 different addition sentences?

$$\frac{1}{6} + \frac{1}{6} = 1$$

## Practice Sheet Mild

### Fractions which make a whole

--	--	--

Colour  $\frac{1}{3}$  of this shape. How much isn't coloured?

--	--	--	--

Colour  $\frac{1}{4}$  of this shape. How much isn't coloured?

--	--	--	--	--

Colour  $\frac{1}{5}$  of this shape. How much isn't coloured?

--	--	--	--	--	--

Colour  $\frac{1}{6}$  of this shape. How much isn't coloured?

--	--	--

Colour  $\frac{2}{3}$  of this shape. How much isn't coloured?

--	--	--	--

Colour  $\frac{3}{4}$  of this shape. How much isn't coloured?

--	--	--	--	--

Colour  $\frac{3}{5}$  of this shape. How much isn't coloured?

--	--	--	--	--	--

Colour  $\frac{4}{6}$  of this shape. How much isn't coloured?

## Practice Sheet Hot

### Fractions which make a whole

1	
$\frac{1}{2}$	

$$\frac{1}{2} + \square = 1$$

1	
$\frac{1}{3}$	

$$\frac{1}{3} + \square = 1$$

1	
	$\frac{2}{4}$

$$\square + \frac{2}{4} = 1$$

1	
$\frac{3}{4}$	

$$\frac{3}{4} + \square = 1$$

1	
$\frac{1}{5}$	

$$\frac{1}{5} + \square = 1$$

1	
$\frac{2}{5}$	

$$\frac{2}{5} + \square = 1$$

1	
	$\frac{2}{3}$

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

1	
	$\frac{3}{5}$

$$\square + \frac{3}{5} = 1$$

1	
$\frac{4}{5}$	

$$\frac{4}{5} + \square = 1$$

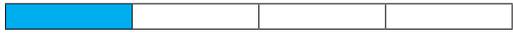
#### Challenge

Can you write pairs of fractions with different denominators that add to 1? e.g.  $\frac{2}{4} + \frac{1}{2} = 1$ .

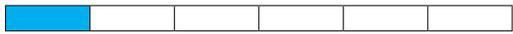
## Practice Sheet Answers

### Fractions which make a whole (mild)

 Colour  $\frac{1}{3}$  of this shape. How much isn't coloured?  $\frac{2}{3}$

 Colour  $\frac{1}{4}$  of this shape. How much isn't coloured?  $\frac{3}{4}$

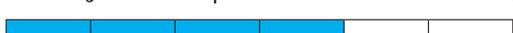
 Colour  $\frac{1}{5}$  of this shape. How much isn't coloured?  $\frac{4}{5}$

 Colour  $\frac{1}{6}$  of this shape. How much isn't coloured?  $\frac{5}{6}$

 Colour  $\frac{2}{3}$  of this shape. How much isn't coloured?  $\frac{1}{3}$

 Colour  $\frac{3}{4}$  of this shape. How much isn't coloured?  $\frac{1}{4}$

 Colour  $\frac{2}{5}$  of this shape. How much isn't coloured?  $\frac{3}{5}$

 Colour  $\frac{2}{6}$  of this shape. How much isn't coloured?  $\frac{4}{6}$

### Fractions which make a whole (hot)

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

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

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

## Check your understanding Questions

Accurately draw a fraction wall to show 1 whole, halves, thirds, quarters and sixths.

Write  $<$ ,  $>$  or  $=$  between these pairs of fractions:

$$\frac{2}{7} \quad \frac{1}{3} \qquad \frac{1}{2} \quad \frac{2}{4}$$

$$\frac{3}{6} \quad \frac{2}{4} \qquad \frac{4}{6} \quad \frac{2}{3}$$

$$\frac{5}{10} \quad \frac{3}{5} \qquad \frac{3}{8} \quad \frac{1}{3}$$

Order these groups of fractions, smallest first:

$$\frac{3}{5} \quad \frac{1}{3} \quad \frac{2}{8} \qquad \frac{2}{3} \quad \frac{4}{5} \quad \frac{5}{7}$$

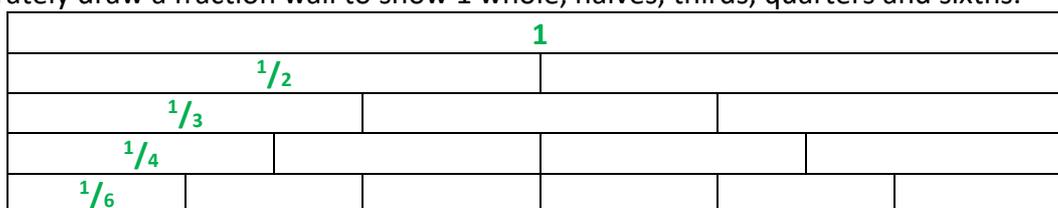
$\frac{1}{2} + \frac{1}{2} = 1$  Write a similar sentence for thirds.

Write a similar sentence for quarters.

*Fold here to hide answers*

## Check your understanding Answers

Accurately draw a fraction wall to show 1 whole, halves, thirds, quarters and sixths.



Children may begin by considering how wide to draw the wall. 2, 3, 4 and 6 are all factors of 12, so the wall could be drawn 12cm wide.

Write  $<$ ,  $>$  or  $=$  between these pairs of fractions:

$$\frac{2}{7} < \frac{1}{3} \qquad \frac{1}{2} = \frac{2}{4}$$

$$\frac{3}{6} = \frac{2}{4} \qquad \frac{4}{6} = \frac{2}{3}$$

$$\frac{5}{10} < \frac{3}{5} \qquad \frac{3}{8} > \frac{1}{3}$$

Order these groups of fractions, smallest first:  $\frac{3}{5}$   $\frac{1}{3}$   $\frac{2}{8}$   $\frac{2}{3}$   $\frac{4}{5}$   $\frac{5}{7}$

$$\frac{2}{8} < \frac{1}{3} < \frac{3}{5} \qquad \frac{2}{3} < \frac{5}{7} < \frac{4}{5}$$

$\frac{1}{2} + \frac{1}{2} = 1$  Write a similar sentence for thirds.  $\frac{1}{3} + \frac{2}{3} = 1$

Write a similar sentence for quarters.  $\frac{1}{4} + \frac{3}{4} = 1$   $\frac{2}{4} + \frac{2}{4} = 1$