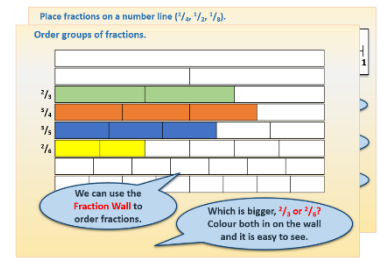


Year 3: Week 3, Day 3

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)

Place 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:

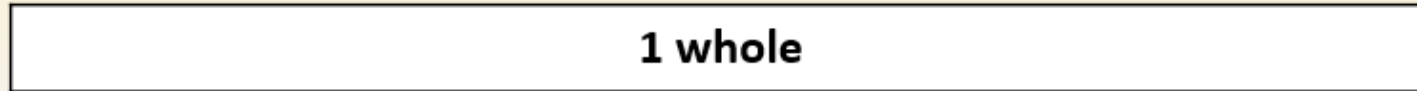
- (a) 3.407
- (b) 4.821
- (c) 0.043
- (d) 5.104
- (e) 48,739

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

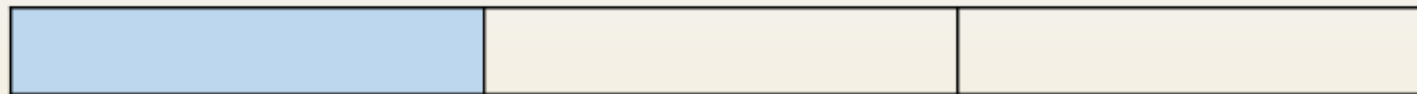
What number is one hundred times smaller than 0.4?

Learning Reminders

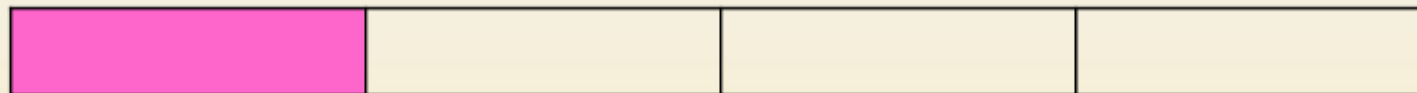
Find pairs of fractions with a total of 1.



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



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



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

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	
$\frac{4}{5}$	

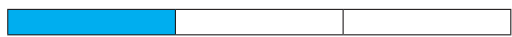
$$\frac{4}{5} + \square = 1$$

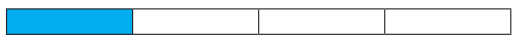
Challenge

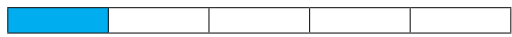
Can you write pairs of fractions with different denominators that add to 1? e.g. $\frac{2}{4} + \frac{1}{2} = 1$.

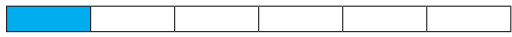
Practice Sheet Answers


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

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

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.

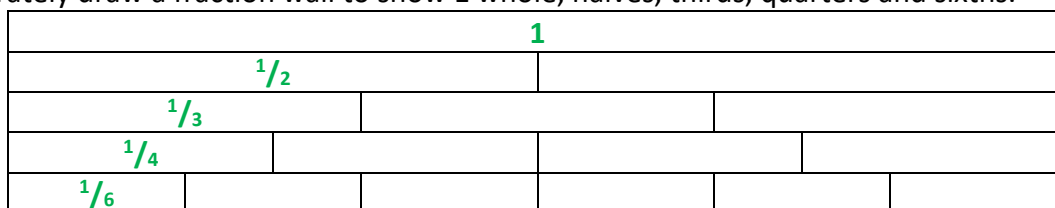
Write a similar sentence for quarters.

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