

8.2.21

Fractions

Learning Objective:

We are learning to add and subtract fractions

I will be successful if:

- I can add and subtract fractions with the same denominator.
- I can use the bar models to support my understanding.
- I know that all parts of the whole need to be equal.

Key Vocabulary

fractions as part of a whole

equal

representations

shapes

quantities

numerator

denominator

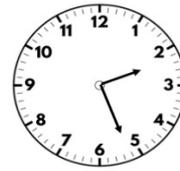
non-unit and unit fractions

improper fractions

mixed number

Flashback 4

Year 5 | Week 6 | Day 1



- 1) Which is greater, $\frac{5}{8}$ or $\frac{5}{9}$?
- 2) What comes next? $\frac{1}{10}, \frac{3}{10}, \frac{5}{10}, \dots$
- 3) Work out 22^2
- 4) Round 8,426 to the nearest hundred.



Challenge - Order these numbers in descending order

- 5) 5.62 6.75 5.31 6.41
- 6) 0.42 0.24 0.44 0.412
- 7) 10.5 11.1 10.21 10.2
- 8) 21.87 27.81 27.18 28.17

Flashback 4

Year 5 | Week 6 | Day 1

1) Which is greater, $\frac{5}{8}$ or $\frac{5}{9}$? $\frac{5}{8}$

2) What comes next? $\frac{1}{10}, \frac{3}{10}, \frac{5}{10}, \dots$ $\frac{7}{10}$

3) Work out 22^2 484

4) Round 8,426 to the nearest hundred. 8,400



White
Rose
Maths

Challenge - Order these numbers in descending order

5) 6.75 6.41 5.62 5.31

6) 0.44 0.42 0.412 0.24

7) 11.1 10.5 10.21 10.2

8) 28.17 27.81 27.18 21.87

Adding fractions with the same denominator.

Here is a bar model to calculate $\frac{3}{5} + \frac{4}{5}$



$$\frac{3}{5} + \frac{4}{5} = \frac{7}{5} = 1 \frac{2}{5}$$

Why do you only add the numerators?

Why does the denominator stay as 5?

Use a bar model to solve the calculations:

$$\frac{3}{8} + \frac{3}{8}$$

$$\frac{5}{6} + \frac{1}{6}$$

$$\frac{5}{3} + \frac{5}{3}$$

Subtracting fractions with the same denominator.

Here are two bar models to calculate $\frac{7}{8} - \frac{3}{8}$



$\frac{4}{8}$ left



$\frac{4}{8}$ left

What is the difference between the two methods?

Use your preferred method to calculate:

$$\frac{5}{8} - \frac{1}{8}$$

$$\frac{9}{7} - \frac{4}{7}$$

$$\frac{5}{3} - \frac{5}{3}$$

$$1 - \frac{2}{5}$$

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Have a go at the questions on the sheet attached.

Reasoning challenges

How many different ways can you balance the equation?

$$\frac{5}{9} + \frac{\square}{9} = \frac{8}{9} + \frac{\square}{9}$$

True or False? Add and subtract fractions

$$\frac{1}{7} + \frac{4}{7} = \frac{9}{7} - \frac{4}{7}$$

White Rose Maths

A chocolate bar has 12 equal pieces.

Amir eats $\frac{5}{12}$ more of the bar than Whitney.

There is one twelfth of the bar remaining.

What fraction of the bar does Amir eat?

What fraction of the bar does Whitney eat?