

What prior learning have you practised?

Linked to the previous session, discuss and complete the following activity:

1. 2/3 + 4/9 = 2. $\frac{1}{2} + \frac{1}{8} =$

3. 1/6 + 4/18 = 4. 3/4 + 1/24 =

WALT: Add 3 or more fractions

Introduction

How would you calculate

I would add the numerators together because the denominators are the same meaning we do not need to find the common denominator.



How would you calculate

I would write out my 3- and 9-times tables and find the lowest common denominator which is 9. I would then convert 1/3 into 9ths. After this I would then add all the numerators together.



Introduction

Let's have a look at another one together:

1/5 + 2/10 + 3/10

On your whiteboard have ago at:

2) 1/6 + 2/6 + 1/3 =



How would you calculate...

$$\frac{1}{3} + \frac{1}{6} + \frac{1}{12}$$
?



Step 1 Work out what number all of the denominators will go into (use your x table knowledge to help you to work this out) 3, 6 and 12 will all go into .

Ste Use your knowledge of convert the fractions so th denom	p 2 equivalent fra lat they all hav linator	octions to ve the same	x by 4 x by 4	• <u>1</u> 	4 - <u>4</u> - 12	2
	4/12	2/12	x by 2 x by 2	 ۵۰۰ ک		 12
Step 3 Add the numerators	°	$\frac{1}{3} + \frac{1}{6}$	$+ \frac{1}{12} =$	7 12		



Can you think of any times when you would add 3 or more fractions in real-life situations?

Key Vocabulary

- Add
- Equivalent
- Same
- Equal
- Fraction
- Divide
- Share
- Denominator
- Numerator

Use the class maths display and your table top resource pack to generate your own examples of key vocabulary too.



Where can I go for help if I'm feeling too crispy?

Ask an adult.

Discuss with a K Group partner.

Use the table resource boxes, an iPad or the classroom displays.

Think the problem through myself.





<u>Fluency la – Do it!</u>

1) 1/3 + 4/9 4) 2/3 + 2/6

2) 2/5 + 3/10 5) 2/9 +3/18

3) ¹/₄ + 3/8 6) 1/5 + 4/10

<u>Fluency Ib - Do it!</u>

1) 1/6 + 2/6 + 1/34) $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} =$

2) 2/10 + 1/5 + 3/10

5)
$$\frac{1}{6} + \frac{1}{3} + \frac{5}{12} =$$

3) 3/12 + 1/12 + 2/3

6)
$$\frac{1}{4} + \frac{1}{8} + \frac{1}{16} =$$

<u>Fluency 1b – Do it! - ANSWERS</u>

1) 1/6 + 2/6 + 1/3 = 5/62) 2/10 + 1/5 + 3/10 = 7/103) 3/12 + 1/12 + 2/3 = 12/12 or 1 $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} = \frac{7}{8}$ $\frac{1}{12} + \frac{1}{3} + \frac{5}{12} = \frac{11}{12}$ $\frac{1}{4} + \frac{1}{8} + \frac{1}{16} = \frac{7}{16}$





Use your sentence starters to help. E.g. Because,,, I already know.... Using this knowledge... Once I found this out...

** Highlight your sentence starters in green and key vocabulary in yellow.

Reasoning - Secure it! Answers

Zoe is attempting to answer: Possible answer: Zoe is wrong $\frac{3}{5} + \frac{1}{10} + \frac{3}{20}$ because she has added the numerators and denominators together and hasn't $\frac{3}{5} + \frac{1}{10} + \frac{3}{20} = \frac{7}{35}$ found a common denominator. Do you agree with Zoe? Explain why.

Sam has added 3 fractions together to get an answer of $\frac{17}{18}$

What 3 fractions could he have added?

Can you find more than one answer?

Use your sentence starters in your explanations.

****** Highlight your sentence starters in green and key vocabulary in yellow.

Problem solving – Deepen it! ANSWERS





Remember to use an emoji to show how well you understood the WALT

Evaluate and assess your K group partner's work against the criteria in the WAGOLL.



The answer is 9/20 and at least 3 fractions were added together. What could the question have been?