Year 4 Maths 22.05.20 **Steppingstone activity** 

# LO: To add and subtract fractions

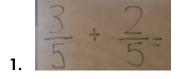
**Success Criteria:** 

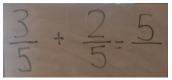


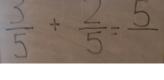
- 1. Look at your fractions
- 2. Add or subtract the numerators
- 3. Write your answer

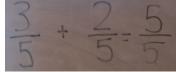
BBC Bitesize fractions: https://www.bbc.co.uk/bitesize/topics/zhdwxnb/articles/z9n4k7h

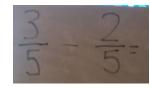
# **Model**

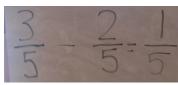


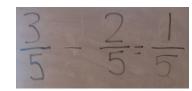












Now you try... In each problem, identify the fraction, then circle the fractions that are equivalent

1) 
$$3/5 + 2/5$$

$$5) 5/6 + 2/6$$

6) 
$$6/7 - 2/7$$

$$3) 4/5 - 2/5$$

4) 
$$7/9 - 3/9$$

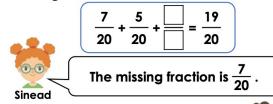
$$8) 5/9 + 2/9$$

1a. Use the digit cards to complete the calculations so that they equal  $\frac{10}{12}$ .

A. 
$$\frac{3}{12} + \frac{5}{12} + \frac{3}{12}$$

B. 
$$\frac{1}{12} + \frac{6}{12} + \frac{1}{12}$$

3b. Sinead and Johnny are finding missing numbers in a calculation.





Who is correct? Explain how you know.

# Canonbury Home Learning

# Year 4 Maths

## Lesson 22.05.20

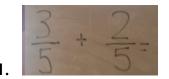
# LO: To add and subtract fractions

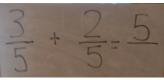
### **Success Criteria:**

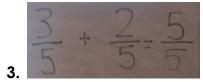
- 1. Look at your fractions
- 2. Add or subtract the numerators
- 3. Write your answer

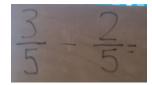
BBC Bitesize fractions: https://www.bbc.co.uk/bitesize/topics/zhdwxnb/articles/z9n4k7h

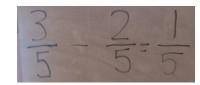
## Model:

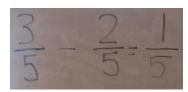


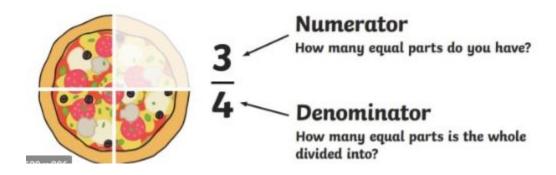














# Canonbury Home Learning Year 4 Maths Main activity

Complete at least 2 columns, more if you can!



Task 1 (Adding Fractions)	Task 2 (Subtracting Fractions)
Practice: Write the equivalent fraction	Practice: Use the bar model to find the fraction of a quantity
1. 6/10 + 3/10 2. 4/5 + 3/5 3. 8/11 + 5/11 4. 5/9 + 2/9 5. 8/11 + 5/11 6. 5/6 + 2/6 7. 8/11 + 5/11 8. 5/6 + 2/6 Fill in the missing fractions 9. 3/7 + ?/? = 1 10.5/8 + ?/? = 7/8	1. 7/8 - 3/8 2. 16/8 - 9/8 3. 6/7 - 2/7 4. 17/11 - 9/11 5. 16/16 - 9/16 6. 11/7 - 4/7 7. 12/9 - 3/9 8. 18/13 - 6/9  Fill in the missing fractions  9. 13/8 - ?/8 = 7/8 10.13/5 - ?/5 = 6/5
Read and answer the following problems	11. 12.
<ul> <li>11. Joanne eats 3/8 of a bunch of grapes; David eats 2/8 of a bunch of grapes. What fraction of the grapes have they eaten altogether?</li> <li>12. David has 4/7 of a cream cake. Sarah has 1/7 of the same cream cake. What fraction of the cake have they eaten altogether?</li> </ul>	$2 - \frac{1}{12} = 1\frac{5}{12}$ 13.
Challenge:  13.3/10 + 2/5 = ?  14.3/6 + 4/12 = ?  15.3/4 + 7/8 = ?	$3 - \frac{1}{16} = 2\frac{11}{16}  4 - \frac{4}{9} = \boxed{\frac{9}{9}}$



# <u>Task 3</u>

# **Reasoning**

Explain your answers.

1) The answer to a question is 4/9; what is the question?

$$5/12 + 3/12 = 6/2 = 5/12 + 3/12 = 4/6$$

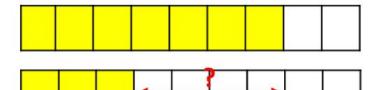
Explain your reasoning.

2.

Annie and Amir are working out the answer to this problem.

$$\frac{7}{9} - \frac{3}{9}$$

Annie uses this model.



Amir uses this model.



Which model is correct? Explain why.

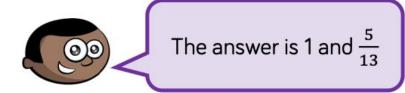
Can you write a number story for each model?

3.

Mo and Teddy are solving:

$$\frac{6}{13} + \frac{5}{13} + \frac{7}{13}$$

Mo



Teddy

The answer is  $\frac{18}{13}$ 



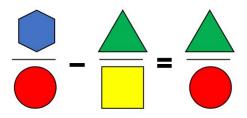
Who do you agree with? Explain why.

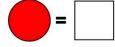


# Task 4

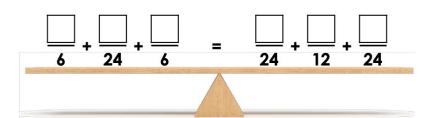
# **Problem solving**

1. What could the value of each shape be?





2. Daniel is trying to make the scales below balance by filling in the missing numerators.



### <u>Rules</u>

- 1. Both calculations need to be equal to make the scale balance.
- There are at least three improper fractions across the two calculations.
- 3. The answer is an improper fraction that is not a whole number.

Help Daniel to investigate the possible numerators to balance the scale.