

Homework/Extension

Step 2: Making the Whole

National Curriculum Objectives:

Mathematics Year 3: (3F1b) [Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators](#)

Mathematics Year 3: (3F1c) [Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match the fractions to the representations to make a whole. Includes the use of halves, thirds and quarters with images and denominators given.

Expected Complete the fractions and match them to the representations to make a whole. Denominators not provided.

Greater Depth Complete the fractions and match them to the representations to make a whole. Includes adding up to 3 fractions to make a whole.

Questions 2, 5 and 8 (Varied Fluency)

Developing Use the clues to identify the fractions that make a whole. Includes the use of thirds only.

Expected Use the clues to identify the fractions that make a whole.

Greater Depth Use the clues to identify the fractions that make a whole. Includes adding up to 3 fractions to make a whole.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain if the statements are correct when making a whole with representations. Representations and fractions provided.

Expected Explain if the statements are correct when making a whole with a fraction and a representation. Representations and fractions provided.

Greater Depth Explain if the statements are correct when making a whole with three fractions. Some fractions written as words.

More [Year 3 Fractions](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Making the Whole

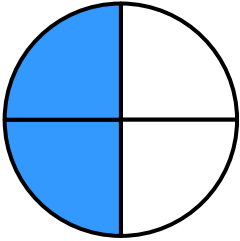
1. Match the fractions to the representations to make a whole.

$$\frac{1}{2}$$

$$\frac{2}{4}$$

$$\frac{2}{3}$$

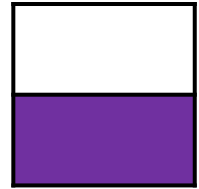
A.



B.



C.



VF
HW/Ext

2. Aliya and Rahul have combined the number of balls they both have.



Aliya

I have fewer balls than Rahul.



Rahul

I have two of the same balls.

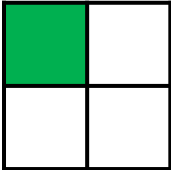
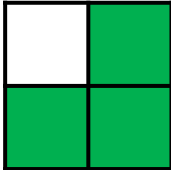


Use the clues to identify the fractions for each child. Write a statement for the representation using fractions.



VF
HW/Ext

3. Alex has written the fractions to make a whole for each representation.

A.  +  = $\frac{4}{5}$

B.  +  = $\frac{2}{2}$

Has he completed the statements correctly? Explain how you know.



RPS
HW/Ext

Making the Whole

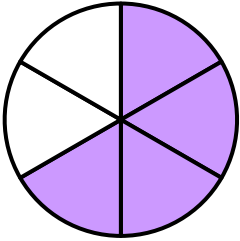
4. Complete the fractions and match them to the representations to make a whole.

$$\frac{2}{\square}$$

$$\frac{1}{\square}$$

$$\frac{3}{\square}$$

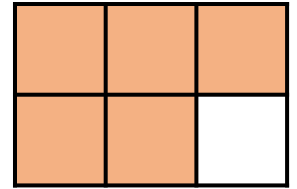
A.



B.



C.



VF
HW/Ext

5. Ellie and Ron have combined the number of gems they both have.



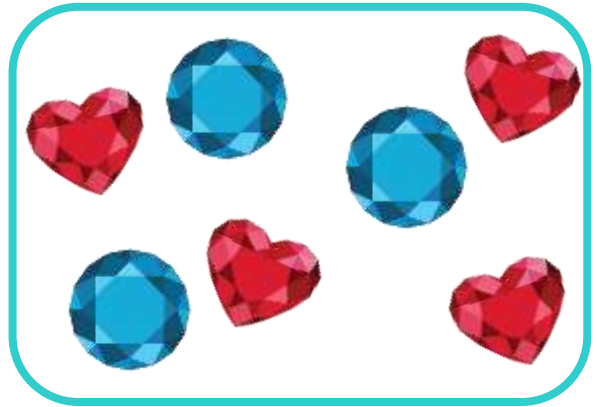
Ellie

I have more gems than Ron.



Ron

My fraction is less than Ellie's.

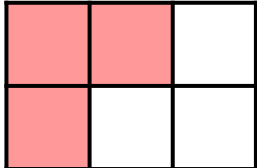


Use the clues to identify the fractions for each child. Write a statement for the representation using fractions.



VF
HW/Ext

6. Hannah has written the fractions to make a whole for each representation.

A.  + $\frac{3}{6}$ = $\frac{5}{5}$

B.  + $\frac{2}{5}$ = $\frac{4}{5}$

Has she completed the statements correctly? Explain how you know.



RPS
HW/Ext

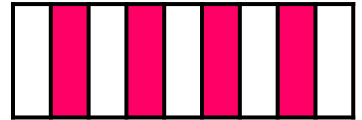
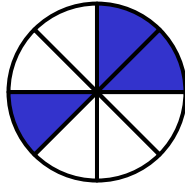
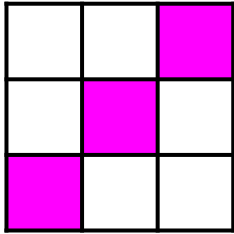
Making the Whole

7. Complete the fractions and match them to the representations to make a whole.

A. $\frac{2}{\square}$ and $\frac{\square}{8}$

B. $\frac{\square}{9}$ and $\frac{4}{\square}$

C. $\frac{1}{\square}$ and $\frac{\square}{9}$



VF
HW/Ext

8. Harry, Toby and Alina have combined the number of eggs they have.



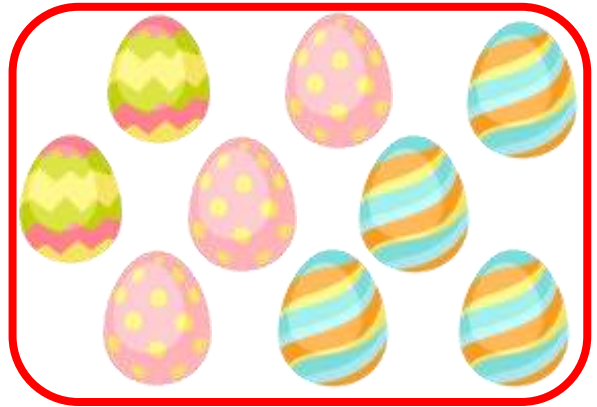
I have fewer eggs than Alina.



My eggs are equal to two out of nine equal parts.



I have the most eggs.



Use the clues to identify the fractions for each child. Write a statement for the representation using fractions.



VF
HW/Ext

9. Andre has written the fractions to make the statements correct.

A. $\frac{4}{8} + \text{two eighths} + \frac{1}{8} = \frac{8}{8}$

B. $\frac{2}{7} + \frac{3}{7} + \text{one seventh} = \frac{7}{9}$

Has he completed the statements correctly? Explain how you know.



RPS
HW/Ext

Homework/Extension

Making the Whole

Developing

1. $A = \frac{2}{4}$; $B = \frac{2}{3}$; $C = \frac{1}{2}$

2. $Aliya = \frac{1}{3}$; $Rahul = \frac{2}{3}$; $\frac{1}{3} + \frac{2}{3} = \frac{3}{3}$

3. No, he has not completed the questions correctly because A and B are wrong. $A: \frac{1}{4} + \frac{3}{4} = \frac{4}{4}$; $B: \frac{2}{3} + \frac{1}{3} = \frac{3}{3}$

Expected

4. $A = \frac{2}{6}$; $B = \frac{3}{7}$; $C = \frac{1}{6}$

5. $Ellie = \frac{4}{7}$; $Ron = \frac{3}{7}$; $\frac{4}{7} + \frac{3}{7} = \frac{7}{7}$

6. No, she has not completed the questions correctly because A and B are wrong. $A: \frac{3}{6} + \frac{3}{6} = \frac{6}{6}$; $B: \frac{3}{5} + \frac{2}{5} = \frac{5}{5}$

Greater Depth

7. $A = \frac{1}{9}$ and $\frac{5}{9}$ or $\frac{2}{9}$ and $\frac{4}{9}$; $B = \frac{2}{8}$ and $\frac{3}{8}$; $C = \frac{1}{9}$ and $\frac{4}{9}$

8. $Harry = \frac{3}{9}$; $Toby = \frac{2}{9}$; $Alina = \frac{4}{9}$; $\frac{3}{9} + \frac{2}{9} + \frac{4}{9} = \frac{9}{9}$

9. No, he has not completed the questions correctly because A and B are wrong. A fractions should total eight eighths; B fractions should total seven sevenths. Various

answers, for example: $A: \frac{4}{8} + \text{two eighths} + \frac{2}{8} = \frac{8}{8}$; $B: \frac{2}{7} + \frac{4}{7} + \text{one seventh} = \frac{7}{7}$