Mon 29th June / Thurs 2nd July 2020 Maths Y5 week commencing (home tasks) Fractions Unit 3 - Like and unlike fractions LO: To add unlike fractions

Let's Learn!

Subtracting unlike fractions

Bottle A contained $\frac{3}{4}\ell$ of milk. Tai poured $\frac{1}{6}\ell$ of it into Bottle B. How much milk was left in Bottle A?

$$\frac{3}{4} - \frac{1}{6} = ?$$

List the multiples of the denominators, 4 and 6. Subtract $\frac{1}{\lambda}\ell$ from $\frac{3}{\lambda}\ell$ of milk

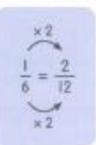
To subtract, convert $\frac{1}{6}$ and $\frac{3}{4}$ to like fractions first.

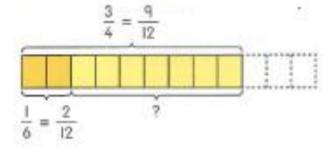
Multiples of 4: 4 , 8 , (12) , 16, ...

Multiples of 6: 6 , (12) , 18 , 24, ...

12 is the lowest common multiple of 4 and 6.







$$\frac{3}{4} - \frac{1}{6} = \frac{9}{12} - \frac{2}{12}$$
$$= \frac{7}{12} \ell$$

 $\frac{7}{12}\ell$ of milk was left in Bottle A.

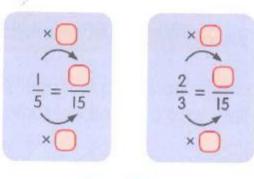
As 12 is the lowest common multiple, I draw a model with 12 units.



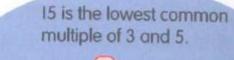
Mon 29^{th June} / Thurs 2nd July 2020 Fractions Unit 3 - Like and unlike fractions

LO: To subtract unlike fractions





$$\frac{2}{3} - \frac{1}{5} = \frac{2}{15} - \frac{2}{15} = \frac{2}{15} = \frac{2}{15}$$



$$\frac{2}{3} = \frac{\bigcirc}{15}$$

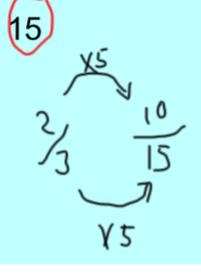
$$\frac{1}{5} = \frac{\bigcirc}{15}$$

Common multiples:

5: 5 10 15

3:3 6 9 12





$$\frac{2}{3} - \frac{1}{5} = \frac{10}{15} - \frac{3}{15}$$
$$= \frac{1}{15}$$

Mon 29^{th June} / Thurs 2nd July 2020 Fractions Unit 3 - Like and unlike fractions LO: To subtract unlike fractions

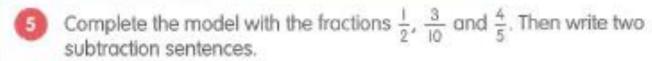
This image cannot currently be displayed.		
x This image cannot currently be displayed.		
This image cannot currently be displayed.		
	This image cannot currently be displayed.	
-		
This image cannot currently be displayed.		
		J

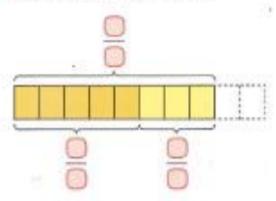
Mon 29th June / Thurs 2nd July 2020

Fractions Unit 3 - Like and unlike fractions

LO: To subtract unlike fractions

Let's Practise!





Subtract. Draw models to help you.

$$\alpha = \frac{5}{8} = \frac{1}{2}$$

b
$$\frac{4}{5} - \frac{1}{4}$$

Subtract. Express your answer in its simplest form.

$$\alpha = \frac{5}{6} - \frac{1}{12}$$

b
$$\frac{9}{10} - \frac{3}{5}$$

$$c = \frac{8}{9} - \frac{5}{6}$$

d
$$\frac{11}{12} - \frac{7}{8}$$

e
$$\frac{4}{5} - \frac{2}{7}$$

$$f = \frac{7}{9} - \frac{3}{4}$$

$$g = \frac{4}{7} - \frac{1}{6}$$

h
$$\frac{2}{3} - \frac{3}{8}$$

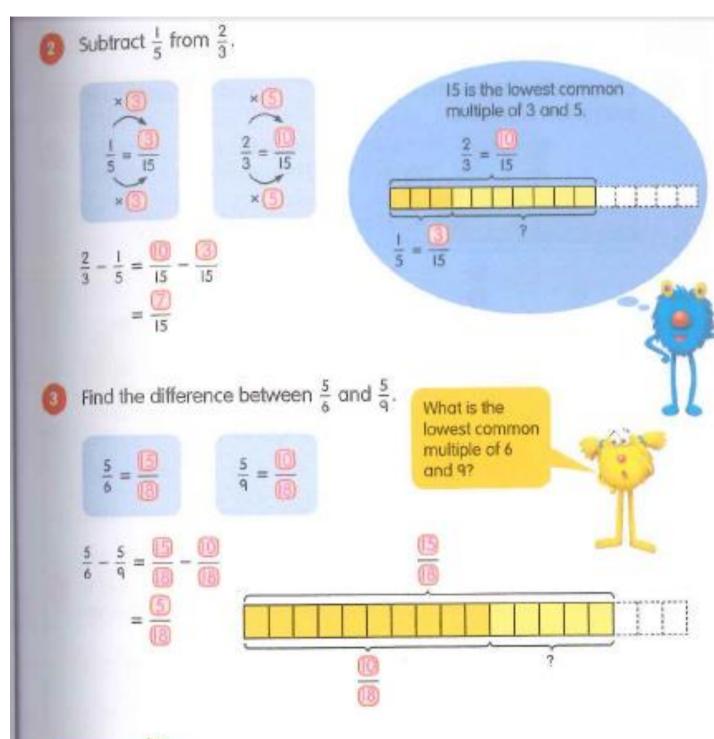
Practice Book 5A, p.69

Mon 29^{th June} / Thurs 2nd July 2020

Fractions Unit 3 - Like and unlike fractions

LO: To subtract unlike fractions

Answers



Activity 🚢

- Draw bars to show the difference between the fractions. Then find the difference between the fractions.
 - $a = \frac{1}{2} \frac{2}{7} \frac{3}{14}$
- **b** $\frac{5}{6} \frac{4}{9} \cdot \frac{7}{18}$
- $c = \frac{3}{4} \frac{3}{5} \frac{3}{20}$