

Lesson 2- Consolidation

Adding and Subtracting Fractions

For this lesson, we will move onto consolidating adding and subtracting fractions.

Visit the website below to recap on how we add and subtract fractions.

https://www.mathsisfun.com/fractions_addition.html

https://www.mathsisfun.com/fractions_subtraction.html

<https://www.bbc.co.uk/bitesize/topics/zhdwxnb/articles/z9n4k7h>

STS

1. First look at the denominators
2. Then find lowest common multiple of each denominator
3. Multiple each fraction so they have the same denominator (the lowest common multiple)
4. Make sure you multiply the numerators too
5. Finally, add the numerators but the denominator stays the same

Depending on how confident you feel, choose 1 task from below:

1 star = Developing

2 stars = Expected

3 stars = Greater Depth

1 star

Section A - Denominators are the same							
1.	$\frac{3}{5} + \frac{1}{5}$	2.	$\frac{8}{9} + \frac{1}{9}$	3.	$\frac{3}{10} + \frac{5}{10}$	4.	$\frac{15}{21} + \frac{8}{21}$
5.	$\frac{5}{12} + \frac{1}{12}$	6.	$\frac{2}{6} + \frac{1}{6}$	7.	$\frac{6}{7} + \frac{3}{7}$	8.	$\frac{2}{5} + \frac{1}{5}$

Section B - Denominators the different							
1.	$\frac{3}{8} + \frac{1}{4}$	2.	$\frac{8}{9} + \frac{1}{3}$	3.	$\frac{3}{5} + \frac{7}{10}$	4.	$\frac{5}{7} + \frac{8}{21}$
5.	$\frac{3}{4} + \frac{1}{12}$	6.	$\frac{2}{5} + \frac{7}{20}$	7.	$\frac{4}{7} + \frac{2}{35}$	8.	$\frac{1}{4} + \frac{3}{16}$

© Classroom Secrets Limited 2016 **Varied Fluency – Add and Subtract Fractions 1** – Teaching Information

Add and Subtract Fractions 1

Add and Subtract Fractions 1

<p>1a. Tick the lowest common denominator which could be used to calculate:</p> $\frac{1}{7} + \frac{3}{14}$ <p>★ 7 14 4 VF</p>	<p>1b. Tick the lowest common denominator which could be used to calculate:</p> $\frac{5}{18} - \frac{1}{9}$ <p>★ 18 16 9 VF</p>
<p>2a. Calculate the missing numerator.</p> $\frac{2}{6} + \frac{\square}{9} = \frac{2}{3}$ <p>★ VF</p>	<p>2b. Calculate the missing numerator.</p> $\frac{5}{8} - \frac{\square}{16} = \frac{1}{4}$ <p>★ VF</p>
<p>3a. Complete the calculation. Give your answer in its simplest form.</p> $\frac{3}{10} - \frac{5}{20} = \frac{\square}{\square}$ <p>★ VF</p>	<p>3b. Complete the calculation. Give your answer in its simplest form.</p> $\frac{2}{5} + \frac{2}{15} = \frac{\square}{\square}$ <p>★ VF</p>
<p>4a. Complete the addition related to the image.</p> <div style="display: flex; align-items: center; justify-content: center;"> + = <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px;">?</div> </div> <p>Give your answer in its simplest form.</p> $\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$ <p>★ VF</p>	<p>4b. Complete the subtraction related to the image.</p> <div style="display: flex; align-items: center; justify-content: center;"> - = <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px;">?</div> </div> <p>Give your answer in its simplest form.</p> $\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$ <p>★ VF</p>
<p>5a. A flower grows $\frac{1}{9}$ of a metre in spring, $\frac{1}{3}$ of a metre in summer and $\frac{1}{6}$ of a metre in autumn.</p> <p>True or false? The total fraction of growth over the three seasons is $\frac{12}{18}$.</p> <p>★ VF</p>	<p>5b. My gran is knitting a scarf. Yesterday she completed $\frac{3}{7}$, the day before $\frac{3}{14}$ and today she has knitted $\frac{2}{7}$.</p> <p>True or false? The fraction of the scarf completed is $\frac{13}{14}$.</p> <p>★ VF</p>

2 stars

$$\frac{5}{6} + \frac{1}{12} + \frac{1}{2} = \boxed{}$$

$$\frac{3}{8} + \frac{3}{4} + \frac{7}{8} = \boxed{}$$

$$\frac{1}{4} + \frac{1}{8} + \frac{1}{16} = \boxed{}$$

$$\frac{2}{3} + \frac{7}{9} + \frac{2}{3} = \boxed{}$$

$$\frac{11}{12} + \frac{5}{6} + \frac{1}{2} = \boxed{}$$

$$\frac{4}{5} + \frac{9}{20} + \frac{3}{10} = \boxed{}$$

$$\frac{5}{8} + \frac{7}{16} + \frac{3}{4} = \boxed{}$$

$$\frac{11}{20} + \frac{3}{5} + \frac{9}{10} = \boxed{}$$

Add and Subtract Fractions 1

Add and Subtract Fractions 1

6a. Tick the lowest common denominator which could be used to calculate:

$$\frac{1}{8} + \frac{3}{4}$$


 4

 8

 12

VF

6b. Tick the lowest common denominator which could be used to calculate:

$$\frac{5}{6} - \frac{1}{4}$$


 6

 16

 12

VF

7a. Calculate the missing numerator.

$$\frac{3}{7} + \frac{\boxed{}}{35} = \frac{5}{7}$$



VF

7b. Calculate the missing denominator.

$$\frac{5}{12} - \frac{2}{9} = \frac{7}{\boxed{}}$$



VF

8a. Complete the calculation. Give your answer in its simplest form.

$$\frac{10}{25} - \frac{1}{5} = \frac{\boxed{}}{\boxed{}}$$



VF

8b. Complete the calculation. Give your answer in its simplest form.

$$\frac{3}{10} + \frac{1}{3} = \frac{\boxed{}}{\boxed{}}$$



VF

9a. Complete the addition related to the image.



Give your answer in its simplest form.

$$\frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$



VF

9b. Complete the addition related to the image.



Give your answer in its simplest form.

$$\frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$



VF

10a. At Joe's party, the children ate $\frac{2}{9}$ of the cake. His family ate $\frac{3}{18}$ of the cake and he shared $\frac{3}{6}$ of the cake with his football club.

True or false? The amount eaten is $\frac{3}{4}$.



VF

10b. A car dealer sells $\frac{1}{10}$ of their target in week one, $\frac{4}{15}$ in week two and $\frac{6}{20}$ in week three.

True or false? The fraction of cars left to sell in week 4 is $\frac{1}{3}$.



VF

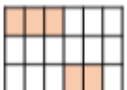
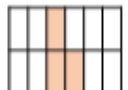
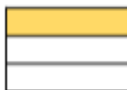

3 stars

Wording Questions You must show your working

- | | |
|----|---|
| 1. | Andy and Bob have a pizza each. After they have eaten some of their pizzas, Andy has $\frac{1}{3}$ of his pizza left and Bob has $\frac{1}{4}$ of his left. What fraction of pizza do they have left in total? |
| 2. | Dave and Ed are putting together bags of marbles to sell for charity. Dave has $\frac{3}{5}$ of a bag left over and Ed has $\frac{2}{3}$ of a bag left. Can they combine what they each have left to make another bag? |
| 3. | Freya wants to make two cakes. She has $\frac{3}{4}$ of a bag of flour. The first cake requires $\frac{2}{5}$ of a bag of flour and the second cake needs $\frac{3}{10}$ of a bag of flour. Does Freya have enough flour to make both cakes |

Add and Subtract Fractions 1

Add and Subtract Fractions 1

<p>11a. Tick the lowest common denominator which could be used to calculate:</p> $\frac{1}{7} + \frac{3}{9}$ <p>★ 12 63 21 VF</p>	<p>11b. Tick the lowest common denominator which could be used to calculate:</p> $\frac{5}{6} - \frac{1}{4}$ <p>★ 6 16 12 VF</p>
<p>12a. Calculate the missing denominator.</p> $\frac{6}{7} - \frac{1}{2} = \frac{5}{\square}$ <p>★ VF</p>	<p>12b. Calculate the missing denominator.</p> $\frac{2}{9} + \frac{3}{8} = \frac{43}{\square}$ <p>★ VF</p>
<p>13a. Complete the calculation. Give your answer in its simplest form.</p> $\frac{6}{7} + \frac{1}{9} = \frac{\square}{\square}$ <p>★ VF</p>	<p>13b. Complete the calculation. Give your answer in its simplest form.</p> $\frac{1}{8} + \frac{7}{10} = \frac{\square}{\square}$ <p>★ VF</p>
<p>14a. Complete the subtraction related to the image.</p>  -  = ? <p>Give your answer in its simplest form.</p> $\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$ <p>★ VF</p>	<p>14b. Complete the subtraction related to the image.</p>  -  = ? <p>Give your answer in its simplest form.</p> $\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$ <p>★ VF</p>
<p>15a. A designer plans a garden; $\frac{3}{8}$ is lawn, $\frac{1}{9}$ is bush ground cover and $\frac{1}{4}$ is hard landscaped.</p> <p>True or false? The amount left for planting is $\frac{19}{72}$.</p> <p>★ VF</p>	<p>15b. A rugby player covers $\frac{2}{12}$ of the pitch, then passes the ball $\frac{5}{18}$ of the pitch to the winger who runs $\frac{1}{9}$ further.</p> <p>True or false? The fraction of the pitch covered is $\frac{3}{9}$.</p> <p>★ VF</p>