



## Addition et soustraction de fractions ayant les mêmes dénominateurs

**Exercice n°1 :** Calculer les fractions suivantes.

|                                                                                                                            |                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| $A = \frac{5}{7} + \frac{3}{7} = \frac{\dots\dots\dots + \dots\dots\dots}{7} = \frac{\dots\dots\dots}{7}$                  | $B = \frac{11}{19} + \frac{7}{19} = \frac{\dots\dots\dots + \dots\dots\dots}{19} = \frac{\dots\dots\dots}{19}$                |
| $C = \frac{3}{5} - \frac{1}{5} = \frac{\dots\dots\dots - \dots\dots\dots}{5} = \frac{\dots\dots\dots}{5}$                  | $D = \frac{8}{31} - \frac{13}{31} = \frac{\dots\dots\dots - \dots\dots\dots}{31} = \frac{\dots\dots\dots}{31}$                |
| $E = \frac{3}{11} + \frac{1}{11} + \frac{5}{11} = \frac{\dots\dots + \dots\dots + \dots\dots}{11} = \frac{\dots\dots}{11}$ | $F = \frac{22}{45} + \frac{12}{45} + \frac{32}{45} = \frac{\dots\dots + \dots\dots + \dots\dots}{45} = \frac{\dots\dots}{45}$ |

**Exercice n°2 :** Calculer les fractions suivantes.

|                                       |                                        |
|---------------------------------------|----------------------------------------|
| $A = \frac{4}{8} + \frac{3}{8} =$     | $B = \frac{101}{11} + \frac{26}{11} =$ |
| $C = \frac{13}{17} - \frac{2}{17} =$  | $D = \frac{91}{73} - \frac{90}{73} =$  |
| $E = \frac{2}{5} - \frac{4}{5} =$     | $F = \frac{-1}{9} - \frac{-2}{9} =$    |
| $G = \frac{21}{21} - \frac{21}{21} =$ | $H = \frac{27}{17} - \frac{13}{17} =$  |

**Exercice n°3 :** Calculer les fractions suivantes.

|                                                  |                                                |                                                   |
|--------------------------------------------------|------------------------------------------------|---------------------------------------------------|
| $A = \frac{7}{11} + \frac{4}{11} - \frac{1}{11}$ | $B = \frac{17}{6} - \frac{7}{6} - \frac{5}{6}$ | $C = \frac{13}{23} + \frac{5}{23} + \frac{6}{23}$ |
|                                                  |                                                |                                                   |



Correction

**Exercice n°1 :** Calculer les fractions suivantes.

|                                                                                              |                                                                                                     |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| $\mathcal{A} = \frac{5}{7} + \frac{3}{7} = \frac{5+3}{7} = \frac{8}{7}$                      | $\mathcal{B} = \frac{11}{19} + \frac{7}{19} = \frac{11+7}{19} = \frac{18}{19}$                      |
| $\mathcal{C} = \frac{3}{5} - \frac{1}{5} = \frac{3-1}{5} = \frac{2}{5}$                      | $\mathcal{D} = \frac{8}{31} - \frac{13}{31} = \frac{8-13}{31} = \frac{-5}{31}$                      |
| $\mathcal{E} = \frac{3}{11} + \frac{1}{11} + \frac{5}{11} = \frac{3+1+5}{11} = \frac{9}{11}$ | $\mathcal{F} = \frac{22}{45} + \frac{12}{45} + \frac{32}{45} = \frac{22+12+32}{45} = \frac{66}{45}$ |

**Exercice n°2 :** Calculer les fractions suivantes.

|                                                                                             |                                                                                                |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| $\mathcal{A} = \frac{4}{8} + \frac{3}{8} = \frac{4+3}{8} = \frac{7}{8}$                     | $\mathcal{B} = \frac{101}{11} + \frac{26}{11} = \frac{101+26}{11} = \frac{127}{11}$            |
| $\mathcal{C} = \frac{13}{19} - \frac{2}{19} = \frac{13-2}{19} = \frac{11}{19}$              | $\mathcal{D} = \frac{91}{73} - \frac{90}{73} = \frac{91-90}{73} = \frac{1}{73}$                |
| $\mathcal{E} = \frac{2}{5} - \frac{-4}{5} = \frac{2-(-4)}{5} = \frac{2+4}{5} = \frac{6}{5}$ | $\mathcal{F} = \frac{-1}{9} - \frac{-2}{9} = \frac{-1-(-2)}{9} = \frac{-1+2}{9} = \frac{1}{9}$ |
| $\mathcal{G} = \frac{21}{21} - \frac{21}{21} = \frac{21-21}{21} = \frac{0}{21} = 0$         | $\mathcal{H} = \frac{27}{17} - \frac{13}{17} = \frac{27-13}{17} = \frac{17}{17} = 1$           |

**Exercice n°3 :** Calculer les fractions suivantes.

|                                                                                                                                 |                                                                                                                             |                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| $\mathcal{A} = \frac{7}{11} + \frac{4}{11} - \frac{1}{11}$<br>$\mathcal{A} = \frac{7+4+1}{11}$<br>$\mathcal{A} = \frac{12}{11}$ | $\mathcal{B} = \frac{17}{6} - \frac{7}{6} - \frac{5}{6}$<br>$\mathcal{B} = \frac{17-7-5}{6}$<br>$\mathcal{B} = \frac{5}{6}$ | $\mathcal{C} = \frac{13}{23} + \frac{5}{23} + \frac{6}{23}$<br>$\mathcal{C} = \frac{13+5+6}{23}$<br>$\mathcal{C} = \frac{24}{23}$ |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|