

## Révisions - Additions et soustractions de fractions

### Exercice 1

Calculer et simplifier au maximum le résultat.

1.  $\frac{11}{42} + \frac{1}{7}$

4.  $\frac{10}{90} + \frac{3}{9}$

2.  $\frac{9}{6} - \frac{40}{60}$

5.  $\frac{7}{6} - \frac{36}{48}$

3.  $\frac{8}{3} - \frac{23}{15}$

6.  $\frac{16}{45} + \frac{1}{9}$

### Exercice 2

Calculer et simplifier au maximum le résultat.

1.  $\frac{3}{2} - \frac{2}{10}$

4.  $\frac{1}{30} + \frac{7}{5}$

2.  $\frac{18}{15} + \frac{4}{5}$

5.  $\frac{3}{36} + \frac{3}{9}$

3.  $\frac{99}{99} - \frac{1}{9}$

6.  $\frac{68}{81} - \frac{6}{9}$

### Exercice 3

Calculer et simplifier au maximum le résultat.

1.  $\frac{68}{48} - \frac{5}{6}$

4.  $\frac{6}{2} - \frac{2}{10}$

2.  $\frac{13}{66} + \frac{3}{6}$

5.  $\frac{36}{36} - \frac{5}{9}$

3.  $\frac{1}{6} + \frac{14}{60}$

6.  $\frac{1}{5} + \frac{5}{30}$

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### Exercice 1

$$1. \frac{11}{42} + \frac{1}{7} = \frac{11}{42} + \frac{1 \times 6}{7 \times 6} = \frac{11}{42} + \frac{6}{42} = \frac{11 + 6}{42} = \frac{17}{42}$$

$$2. \frac{9}{6} - \frac{40}{60} = \frac{9 \times 10}{6 \times 10} - \frac{40}{60} = \frac{90}{60} - \frac{40}{60} = \frac{90 - 40}{60} = \frac{50}{60} = \frac{5 \times 10}{6 \times 10} = \frac{5}{6}$$

$$3. \frac{8}{3} - \frac{23}{15} = \frac{8 \times 5}{3 \times 5} - \frac{23}{15} = \frac{40}{15} - \frac{23}{15} = \frac{40 - 23}{15} = \frac{17}{15}$$

$$4. \frac{10}{90} + \frac{3}{9} = \frac{10}{90} + \frac{3 \times 10}{9 \times 10} = \frac{10}{90} + \frac{30}{90} = \frac{10 + 30}{90} = \frac{40}{90} = \frac{4 \times 10}{9 \times 10} = \frac{4}{9}$$

$$5. \frac{7}{6} - \frac{36}{48} = \frac{7 \times 8}{6 \times 8} - \frac{36}{48} = \frac{56}{48} - \frac{36}{48} = \frac{56 - 36}{48} = \frac{20}{48} = \frac{5 \times 4}{12 \times 4} = \frac{5}{12}$$

$$6. \frac{16}{45} + \frac{1}{9} = \frac{16}{45} + \frac{1 \times 5}{9 \times 5} = \frac{16}{45} + \frac{5}{45} = \frac{16 + 5}{45} = \frac{21}{45} = \frac{7 \times 3}{15 \times 3} = \frac{7}{15}$$

### Exercice 2

$$1. \frac{3}{2} - \frac{2}{10} = \frac{3 \times 5}{2 \times 5} - \frac{2}{10} = \frac{15}{10} - \frac{2}{10} = \frac{15 - 2}{10} = \frac{13}{10}$$

$$2. \frac{18}{15} + \frac{4}{5} = \frac{18}{15} + \frac{4 \times 3}{5 \times 3} = \frac{18}{15} + \frac{12}{15} = \frac{18 + 12}{15} = \frac{30}{15} = \frac{2 \times 15}{1 \times 15} = 2$$

$$3. \frac{99}{99} - \frac{1}{9} = \frac{99}{99} - \frac{1 \times 11}{9 \times 11} = \frac{99}{99} - \frac{11}{99} = \frac{99 - 11}{99} = \frac{88}{99} = \frac{8 \times 11}{9 \times 11} = \frac{8}{9}$$

$$4. \frac{1}{30} + \frac{7}{5} = \frac{1}{30} + \frac{7 \times 6}{5 \times 6} = \frac{1}{30} + \frac{42}{30} = \frac{1 + 42}{30} = \frac{43}{30}$$

$$5. \frac{3}{36} + \frac{3}{9} = \frac{3}{36} + \frac{3 \times 4}{9 \times 4} = \frac{3}{36} + \frac{12}{36} = \frac{3 + 12}{36} = \frac{15}{36} = \frac{5 \times 3}{12 \times 3} = \frac{5}{12}$$

$$6. \frac{68}{81} - \frac{6}{9} = \frac{68}{81} - \frac{6 \times 9}{9 \times 9} = \frac{68}{81} - \frac{54}{81} = \frac{68 - 54}{81} = \frac{14}{81}$$

### Exercice 3

$$1. \frac{68}{48} - \frac{5}{6} = \frac{68}{48} - \frac{5 \times 8}{6 \times 8} = \frac{68}{48} - \frac{40}{48} = \frac{68 - 40}{48} = \frac{28}{48} = \frac{7 \times 4}{12 \times 4} = \frac{7}{12}$$

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$$2. \frac{13}{66} + \frac{3}{6} = \frac{13}{66} + \frac{3 \times 11}{6 \times 11} = \frac{13}{66} + \frac{33}{66} = \frac{13 + 33}{66} = \frac{46}{66} = \frac{23 \times 2}{33 \times 2} = \frac{23}{33}$$

$$3. \frac{1}{6} + \frac{14}{60} = \frac{1 \times 10}{6 \times 10} + \frac{14}{60} = \frac{10}{60} + \frac{14}{60} = \frac{10 + 14}{60} = \frac{24}{60} = \frac{2 \times 12}{5 \times 12} = \frac{2}{5}$$

$$4. \frac{6}{2} - \frac{2}{10} = \frac{6 \times 5}{2 \times 5} - \frac{2}{10} = \frac{30}{10} - \frac{2}{10} = \frac{30 - 2}{10} = \frac{28}{10} = \frac{14 \times 2}{5 \times 2} = \frac{14}{5}$$

$$5. \frac{36}{36} - \frac{5}{9} = \frac{36}{36} - \frac{5 \times 4}{9 \times 4} = \frac{36}{36} - \frac{20}{36} = \frac{36 - 20}{36} = \frac{16}{36} = \frac{4 \times 4}{9 \times 4} = \frac{4}{9}$$

$$6. \frac{1}{5} + \frac{5}{30} = \frac{1 \times 6}{5 \times 6} + \frac{5}{30} = \frac{6}{30} + \frac{5}{30} = \frac{6 + 5}{30} = \frac{11}{30}$$