

# RECUPERO

## LE ESPRESSIONI CONTENENTI SOMME ALGEBRICHE

### 1 COMPLETA

Semplifica la seguente espressione:

$$-3 + \left[ 2 + \left( \frac{1}{3} - \frac{3}{2} + 2 \right) - \frac{1}{3} \right] - \left( -\frac{1}{2} + \frac{1}{3} \right).$$

$$-3 + \left[ 2 + \left( \frac{1}{3} - \frac{3}{2} + 2 \right) - \frac{1}{3} \right] - \left( -\frac{1}{2} + \frac{1}{3} \right) =$$

$$= -3 + \left[ 2 + \frac{2 - \dots + \dots}{6} - \frac{1}{3} \right] - \left( \frac{-3 + \dots}{6} \right) =$$

$$= -3 + \left[ 2 + \left( \frac{\dots}{6} \right) - \frac{1}{3} \right] - \left( -\frac{\dots}{6} \right) =$$

$$= -3 + \left[ 2 + \frac{\dots}{6} - \frac{1}{3} \right] + \frac{1}{6} =$$

$$= -3 + \left[ \frac{12 + \dots - \dots}{6} \right] + \frac{1}{6} =$$

$$= -3 + \frac{\dots}{6} + \frac{1}{6} =$$

$$= \frac{-18 + \dots + 1}{6} =$$

$$= -\frac{\dots}{6} =$$

$$= -\frac{1}{3}.$$

Esegui le operazioni tra frazioni  
nelle parentesi tonde.

Togli le parentesi tonde cambiando  
eventualmente i segni.

Esegui le operazioni tra frazioni  
nella parentesi quadra.

Esegui le operazioni tra frazioni.

## 2 PROVA TU

Semplifica la seguente espressione:

$$\left(\frac{1}{2} - \frac{4}{3}\right) + \left(\frac{1}{2} + \frac{1}{3}\right) - \left[\left(-\frac{1}{12} + \frac{5}{4}\right) - \left(\frac{1}{2} + \frac{1}{6}\right)\right].$$

$$\begin{aligned} & \left(\frac{1}{2} - \frac{4}{3}\right) + \left(\frac{1}{2} + \frac{1}{3}\right) - \left[\left(-\frac{1}{12} + \frac{5}{4}\right) - \left(\frac{1}{2} + \frac{1}{6}\right)\right] = \\ & = \left(\frac{3 - \dots}{6}\right) + \left(\frac{3 + \dots}{6}\right) - \left[\left(\frac{-1 + \dots}{12}\right) - \left(\frac{3 + \dots}{6}\right)\right] = \\ & = \left(\frac{-\dots}{6}\right) + \left(\frac{+ \dots}{6}\right) - \left[\left(\frac{\dots}{12}\right) - \left(\frac{4}{6}\right)\right] = \\ & = -\frac{\dots}{6} + \frac{\dots}{6} - \left[\frac{\dots}{12} - \frac{4}{6}\right] = \\ & = -\frac{\dots}{6} + \frac{\dots}{6} - \left[\frac{\dots - 8}{12}\right] = \\ & = -\left[\frac{\dots}{12}\right] = -\frac{\dots}{2}. \end{aligned}$$

Semplifica le seguenti espressioni.

- |           |   |                              |
|-----------|---|------------------------------|
| <b>3</b>  | $\left(3 + \frac{2}{3}\right) - \left(\frac{3}{2} - \frac{4}{9}\right)$   | $\left[\frac{47}{18}\right]$ |
| <b>4</b>  | $\frac{1}{2} + \left[\left(1 - \frac{5}{6}\right) + \left(\frac{3}{2} - \frac{1}{4}\right)\right] - \frac{7}{3}$                | $\left[-\frac{5}{12}\right]$ |
| <b>5</b>  | $\left(\frac{1}{2} - \frac{1}{10}\right) + \left(-\frac{4}{5} + \frac{17}{20} - \frac{3}{4}\right) - \frac{1}{2}$               | $\left[-\frac{4}{5}\right]$  |
| <b>6</b>  | $\left(-\frac{3}{4} + 6\right) - \left(\frac{9}{2} - \frac{5}{8}\right) - \frac{1}{4}$  | $\left[\frac{9}{8}\right]$   |
| <b>7</b>  | $\left[2 + \left(-1 + \frac{1}{2}\right) + \left(-1 - \frac{3}{4}\right)\right] + 1$  | $\left[\frac{3}{4}\right]$   |
| <b>8</b>  | $\left[2 + \left(\frac{1}{2} - 1\right) - \left(-\frac{1}{4} + 2\right)\right] - 1$   | $\left[-\frac{5}{4}\right]$  |
| <b>9</b>  | $\left\{-\left[-\frac{3}{4} + \left(-\frac{5}{6} - \frac{1}{8}\right)\right] - \frac{7}{12}\right\}$                            | $\left[\frac{9}{8}\right]$   |
| <b>10</b> | $\left(\frac{1}{4} - \frac{2}{5}\right) - \left(\frac{1}{2} + 1\right) - \frac{7}{20} + \left(\frac{4}{5} + \frac{3}{5}\right)$ | $\left[-\frac{3}{5}\right]$  |
| <b>11</b> | $\left(-2 + \frac{1}{2}\right) + \left[-2 + \left(\frac{3}{4} - \frac{1}{8}\right) + \left(5 + \frac{7}{2}\right)\right]$       | $\left[\frac{45}{8}\right]$  |