

## RECUPERO

## LE ESPRESSIONI CON LE QUATTRO OPERAZIONI

## 1 COMPLETA

Semplifica la seguente espressione:

$$\left[ \frac{1}{3} + \frac{6}{5} : \left( -\frac{18}{10} \right) \right] : \left[ \left( \frac{1}{14} - \frac{6}{7} + 1 \right) \cdot \left( \frac{4}{15} - \frac{4}{3} + \frac{2}{5} \right) \right].$$

$$\left[ \frac{1}{3} + \frac{6}{5} : \left( -\frac{18}{10} \right) \right] : \left[ \left( \frac{1}{14} - \frac{6}{7} + 1 \right) \cdot \left( \frac{4}{15} - \frac{4}{3} + \frac{2}{5} \right) \right] =$$

$$= \left[ \frac{1}{3} + \frac{6}{5} \cdot \left( -\frac{\dots}{\dots} \right) \right] : \left[ \left( \frac{1 - \dots + 14}{14} \right) \cdot \left( \frac{4 - \dots + 6}{15} \right) \right] =$$

Esegui le operazioni nelle parentesi tonde e semplifica in croce la prima moltiplicazione.

$$= \left[ \frac{1}{3} - \frac{\dots}{\dots} \right] : \left[ \left( \frac{\dots}{14} \right) \cdot \left( -\frac{10}{15} \right) \right] =$$

Esegui la prima moltiplicazione e semplifica in croce nella seconda parentesi quadra.

$$= \left[ \frac{1 - \dots}{3} \right] : \left[ -\frac{\dots}{\dots} \right] =$$

Esegui la sottrazione nella prima parentesi quadra.

$$= -\frac{\dots}{3} : \left( -\frac{\dots}{\dots} \right) = -\frac{\dots}{3} \cdot (-7) = +\frac{7}{3}.$$

Trasforma la divisione in moltiplicazione.

## 2 PROVA TU

Semplifica la seguente espressione:

$$\left\{ \left[ \left( \frac{3}{4} - \frac{1}{8} \right) : \left( \frac{13}{8} - 1 \right) + 4 \right] : \left( -\frac{5}{2} \right) + 4 \right\} \cdot \frac{3}{2} - \frac{13}{6}.$$

$$\left\{ \left[ \left( \frac{3}{4} - \frac{1}{8} \right) : \left( \frac{13}{8} - 1 \right) + 4 \right] : \left( -\frac{5}{2} \right) + 4 \right\} \cdot \frac{3}{2} - \frac{13}{6} =$$

$$= \left\{ \left[ \left( \frac{\dots - \dots}{8} \right) : \left( \frac{13 - \dots}{8} \right) + 4 \right] : \left( -\frac{5}{2} \right) + 4 \right\} \cdot \frac{3}{2} - \frac{13}{6} =$$

$$= \left\{ \left[ \frac{\dots}{8} : \frac{\dots}{8} + 4 \right] : \left( -\frac{5}{2} \right) + 4 \right\} \cdot \frac{3}{2} - \frac{13}{6} =$$

$$= \left\{ \left[ \frac{\dots}{8} \cdot \frac{8}{5} + 4 \right] \cdot \left( -\frac{2}{\dots} \right) + 4 \right\} \cdot \frac{3}{2} - \frac{13}{6} =$$

$$= \left\{ \dots \cdot \left( -\frac{2}{5} \right) + 4 \right\} \cdot \frac{3}{2} - \frac{13}{6} =$$

$$= \left\{ -\dots + 4 \right\} \cdot \frac{3}{2} - \frac{13}{6} =$$

$$= \dots \cdot \frac{3}{2} - \frac{13}{6} =$$

$$= \dots - \frac{13}{6} =$$

$$= \frac{\dots - 13}{6} = \dots$$

Semplifica le seguenti espressioni.

- |           |  |                                |
|-----------|--|--------------------------------|
| <b>3</b>  | $\left[ \frac{1}{3} + \frac{6}{5} : \left( -\frac{18}{10} \right) \right] + 1$   | $\left[ \frac{2}{3} \right]$   |
| <b>4</b>  | $\left[ \left( \frac{1}{12} + \frac{7}{6} - 1 \right) \cdot \left( \frac{4}{15} - \frac{2}{3} + \frac{4}{5} \right) \right]$   | $\left[ \frac{1}{10} \right]$  |
| <b>5</b>  | $\left[ \left( -\frac{4}{5} - \frac{9}{10} + \frac{5}{3} \right) : \left( -\frac{4}{15} \right) \right]$   | $\left[ \frac{1}{8} \right]$   |
| <b>6</b>  | $\left\{ \frac{2}{3} : \left[ \frac{1}{8} : \left( \frac{5}{2} - \frac{9}{4} \right) \right] \right\}$   | $\left[ \frac{4}{3} \right]$   |
| <b>7</b>  | $\left( -\frac{2}{3} - \frac{1}{2} \right) : \left( \frac{4}{3} + 1 \right)$   | $\left[ -\frac{1}{2} \right]$  |
| <b>8</b>  | $\left[ -\left( 1 - \frac{1}{4} \right) + \frac{1}{5} : \left( \frac{3}{20} \right) \right] \cdot \left( \frac{3}{7} - 1 \right)$  | $\left[ -\frac{1}{3} \right]$  |
| <b>9</b>  | $\left\{ \frac{3}{4} \cdot \left[ \left( \frac{7}{20} - \frac{3}{5} + 1 \right) : \frac{3}{5} \right] \right\}$  | $\left[ \frac{15}{16} \right]$ |
| <b>10</b> | $\left[ \left( 1 + \frac{1}{2} - \frac{2}{3} \right) : \left( \frac{3}{4} + \frac{1}{2} \right) \right] : \left( -\frac{1}{3} \right)$   | $[-2]$                         |
| <b>11</b> | $\left[ \left( \frac{1}{8} + \frac{1}{2} \right) : \left( \frac{1}{2} - \frac{3}{4} \right) \right] : \left[ \frac{4}{9} : \left( \frac{4}{3} - 2 \right) \right]$                   | $\left[ \frac{15}{4} \right]$  |
| <b>12</b> | $\left\{ \left[ -\frac{5}{4} - 2 \left( -\frac{2}{3} + \frac{1}{6} \right) \right] \cdot \left( 2 + \frac{2}{3} \right) - 1 \right\} : \left( \frac{1}{3} - 2 \right) - \frac{4}{3}$ | $\left[ -\frac{1}{3} \right]$  |