

## Espressioni con le quattro operazioni

$$\left[ \left( 5 - \frac{3}{7} \right) \cdot 5 - \left( \frac{32}{7} - 4 \right) \div \frac{1}{5} \right] \div \frac{5}{4} + \left( 1 - \frac{1}{3} \right) + \frac{10}{3} =$$

$$\left\{ \left[ \frac{5}{7} + \frac{11}{6} \div \left( \frac{1}{4} + \frac{2}{3} \right) \right] \times \frac{21}{19} - \left( \frac{1}{6} + \frac{7}{12} \right) \times \frac{4}{5} \right\} \div 3 - \frac{1}{2} =$$

$$\left[ \left( \frac{9}{12} + \frac{10}{4} \right) \div \frac{26}{4} + \left( \frac{10}{8} - \frac{21}{18} \right) \div \frac{10}{12} \right] \cdot \left[ \left( \frac{9}{15} + \frac{4}{2} - \frac{5}{3} \right) \div \frac{35}{45} \right] =$$

$$\left[ \left( \frac{15}{25} - \frac{2}{6} \right) \cdot \frac{9}{12} + \left( \frac{4}{15} - \frac{11}{45} \right) \cdot \frac{10}{2} \right] \div \frac{7}{9} =$$

## Soluzioni

$$\begin{aligned} & \left[ \left( 5 - \frac{3}{7} \right) \cdot 5 - \left( \frac{32}{7} - 4 \right) \div \frac{1}{5} \right] \div \frac{5}{4} + \left( 1 - \frac{1}{3} \right) + \frac{10}{3} = \\ & \left[ \left( 5 - \frac{3}{7} \right) \cdot 5 - \left( \frac{32}{7} - 4 \right) \div \frac{1}{5} \right] \div \frac{5}{4} + \left( 1 - \frac{1}{3} \right) + \frac{10}{3} = \\ & \left[ \left( \frac{32}{7} \right) \cdot 5 - \left( \frac{4}{7} \right) \cdot \frac{5}{1} \right] \cdot \frac{4}{5} + \frac{2}{3} + \frac{10}{3} = \\ & \left[ \frac{160}{7} - \frac{20}{7} \right] \cdot \frac{4}{5} + \frac{2}{3} + \frac{10}{3} = \\ & = \frac{140}{7} \cdot \frac{4}{5} + \frac{2}{3} + \frac{10}{3} = \frac{20}{1} \cdot \frac{4}{5} + \frac{2}{3} + \frac{10}{3} = \frac{16}{1} + \frac{2}{3} + \frac{10}{3} = \frac{48 + 2 + 10}{3} = \frac{60}{3} = 20 \end{aligned}$$

$$\begin{aligned} & \left\{ \left[ \frac{5}{7} + \frac{11}{6} \div \left( \frac{1}{4} + \frac{2}{3} \right) \right] \times \frac{21}{19} - \left( \frac{1}{6} + \frac{7}{12} \right) \times \frac{4}{5} \right\} \div 3 - \frac{1}{2} = \\ & = \left\{ \left[ \frac{5}{7} + \frac{11}{6} \div \left( \frac{11}{12} \right) \right] \times \frac{21}{19} - \left( \frac{9}{12} \right) \times \frac{4}{5} \right\} \div 3 - \frac{1}{2} = \\ & = \left\{ \left[ \frac{5}{7} + \frac{2}{1} \right] \times \frac{21}{19} - \left( \frac{9}{3} \right) \times \frac{1}{5} \right\} \cdot \frac{1}{3} - \frac{1}{2} = \\ & = \left\{ \left[ \frac{19}{7} \right] \times \frac{21}{19} - \left( \frac{9}{3} \right) \times \frac{1}{5} \right\} \cdot \frac{1}{3} - \frac{1}{2} = \\ & = \left\{ \left[ \frac{1}{1} \right] \times \frac{3}{1} - \left( \frac{3}{1} \right) \times \frac{1}{5} \right\} \cdot \frac{1}{3} - \frac{1}{2} = \\ & = \left\{ \frac{3}{1} - \frac{3}{5} \right\} \cdot \frac{1}{3} - \frac{1}{2} = \left\{ \frac{15-3}{5} \right\} \cdot \frac{1}{3} - \frac{1}{2} = \left\{ \frac{12}{5} \right\} \cdot \frac{1}{3} - \frac{1}{2} = \left\{ \frac{4}{5} \right\} - \frac{1}{2} = \frac{4}{5} - \frac{1}{2} = \frac{8-5}{10} = \frac{3}{10} \end{aligned}$$

$$\begin{aligned} & \left[ \left( \frac{9}{12} + \frac{10}{4} \right) \div \frac{26}{4} + \left( \frac{10}{8} - \frac{21}{18} \right) \div \frac{10}{12} \right] \cdot \left[ \left( \frac{9}{15} + \frac{4}{2} - \frac{5}{3} \right) \div \frac{35}{45} \right] = \\ & = \left[ \left( \frac{9+30}{12} \right) \cdot \frac{4}{26} + \left( \frac{90-84}{72} \right) \cdot \frac{12}{10} \right] \cdot \left[ \left( \frac{18+60-50}{30} \right) \cdot \frac{9}{7} \right] = \\ & = \left[ \left( \frac{39}{12} \right) \cdot \frac{4}{26} + \left( \frac{6}{72} \right) \cdot \frac{12}{10} \right] \cdot \left[ \left( \frac{28}{30} \right) \cdot \frac{9}{7} \right] = \\ & = \left[ \frac{1}{2} + \frac{1}{10} \right] \cdot \left[ \frac{12}{10} \right] = \left[ \frac{6}{10} \right] \cdot \left[ \frac{12}{10} \right] = \left[ \frac{6}{10} \right] \cdot \left[ \frac{6}{5} \right] = \frac{18}{25} \end{aligned}$$

$$\begin{aligned} & \left[ \left( \frac{15}{25} - \frac{2}{6} \right) \cdot \frac{9}{12} + \left( \frac{4}{15} - \frac{11}{45} \right) \cdot \frac{10}{2} \right] \div \frac{7}{9} = \\ & \left[ \left( \frac{15}{25} - \frac{2}{6} \right) \cdot \frac{9}{12} + \left( \frac{4}{15} - \frac{11}{45} \right) \cdot \frac{10}{2} \right] \div \frac{7}{9} = \\ & = \left[ \left( \frac{90-50}{150} \right) \cdot \frac{3}{4} + \left( \frac{12-11}{45} \right) \cdot \frac{5}{1} \right] \cdot \frac{9}{7} = \\ & = \left[ \left( \frac{40}{150} \right) \cdot \frac{3}{4} + \left( \frac{1}{45} \right) \cdot \frac{5}{1} \right] \cdot \frac{9}{7} = \\ & = \left[ \frac{1}{5} + \frac{1}{9} \right] \cdot \frac{9}{7} = \left[ \frac{14}{45} \right] \cdot \frac{9}{7} = \frac{2}{5} \end{aligned}$$