

Espressioni con le quattro operazioni e le parentesi. Complete di soluzione guidata.
Arithmetic Expression with four operations and parenthesis.



1. $[(12 : 4 + 9 : 1 + 15 : 5) \cdot 2 - (1 + 1 + 8 + 16 + 1)] : 3$ [\[1\] soluzione](#)
2. $12 : 6 + 137 : 137 - [15 + (8 : 4 - 2 \cdot 0) : 2 - 5 \cdot 3]$ [\[2\] soluzione](#)
3. $[26 : (2 + 11 \cdot 2 - 2 + 4)] \cdot \{ [10 + (16 : 4)] : (8 + 6 - 7) + 2 \}$ [\[4\] soluzione](#)
4. $32 : 4 : 2 - [26 - (81 : 9 \cdot 2 : 3 + 3 \cdot 6)] - 32 : 4 : 2$ [\[0\] soluzione](#)
5. $[(12 \cdot 2 + 3 \cdot 4 - 5 \cdot 6) \cdot (8 : 2 + 9 : 3 + 1 - 2 \cdot 4) \cdot (15 + 3)] \cdot 10$ [\[0\] soluzione](#)
6. $(14 + 4 - 12 - 3) : 3 + [27 - 5 \cdot 5 + (2 + 2 \cdot 3) \cdot 4 - (5 \cdot 6 + 1)]$ [\[3\] soluzione](#)
7. $[12 + 3 - 11 - 3 + (18 + 7 - 5 + 3 - 9) : 7] + 10 - 2 - 8$ [\[3\] soluzione](#)
8. $51 : \{ 12 + 3 \cdot [2 \cdot 18 - 9 \cdot (24 : 6 - 2) : 6] - 60 \} + 7$ [\[8\] soluzione](#)
9. $\{ 53 \cdot 2 + 20 - 5 \cdot [9 \cdot 5 - 12 \cdot (10 - 49 : 7)] - 18 \} : (24 : 8 + 6)$ [\[7\] soluzione](#)
10. $10 + \{ (120 - 21 \cdot 3 + 10 - 4) \cdot 2 : 3 - [6 \cdot 9 - (80 - 18 \cdot 4) \cdot 4] + 18 \} : 2$ [\[29\] soluzione](#)
11. $(25 \cdot 2 + 10 \cdot 5) + 9 \cdot 8 : \{ 56 + 3 \cdot [5 + 6 \cdot (3 \cdot 4 - 10) - 17] - 5 \cdot 4 \}$ [\[102\] soluzione](#)
12. $[(6 \cdot 10 - 2 \cdot 16 + 44 : 11) - 6 \cdot (39 : 13 \cdot 4 - 25 \cdot 4 : 10)] - (13 - 6 \cdot 2 + 8)$ [\[1\] soluzione](#)
13. $\{ 19 + [7 \cdot 5 - (4 + 5 \cdot 2) \cdot 2] \cdot (7 \cdot 6 - 13 \cdot 3) \} : (3 + 15 : 3)$ [\[5\] soluzione](#)
14. $\{ 1 + 3 \cdot 25 - [(2 \cdot 10 - 6) \cdot 5 - (15 \cdot 2 - 2) : (8 - 1) + 2 \cdot 5] \} : [8 : (8 - 7 \cdot 1) - (3 \cdot 27 - 17) : 8]$ [\[indeter.\] soluzione](#)
15. $\{ 4 \cdot 25 + 2 \cdot 25 + (3 \cdot 5) \cdot [2 \cdot 25 - 5 \cdot (36 : 6 - 2 \cdot 2)] - 24 \cdot 25 \} : (27 : 3 + 1)$ [\[1\] soluzione](#)
16. $\{ 1 + 3 \cdot 26 - [(20 - 2 \cdot 3) \cdot 5 - (3 \cdot 5 - 2) : (2 \cdot 4 - 1) + 2 \cdot 5] \} : [2 \cdot 4 : (2 \cdot 4 - 7) - (32 - 16) : 2]$ [\[imposs.\] soluzione](#)
17. $\{ [(138 : 3 - 2 \cdot 20) : 3 + 56 : 7] : 5 + 52 : 4 \} : 3 + [12 \cdot 2 - (15 + 4)]$ [\[10\] soluzione](#)
18. $\{ 81 - [(5 \cdot 4 - 2 \cdot 3) \cdot 5 - (15 \cdot 2 - 2) : (2 \cdot 4 - 1) + 10] \} \cdot [8 : (2 \cdot 3 - 5) - 64 : 8]$ [\[0\] soluzione](#)

19. $14 \cdot 3 : 7 : 6 - (13 \cdot 2 + 70 \cdot 10) : \{93 - [500 : 5 + (29 - 45 : 3) : 7 + 8] : 5 - 5\} : 11$ [\[0\] soluzione](#)
20. $(200 + 9 \cdot 5) : \{12 \cdot 5 - 5 \cdot [29 \cdot 3 + 11 - 7 \cdot (21 : 7 + 19 \cdot 2 - 54 : 2) + (46 : 2 + 3 \cdot 9) : 10]\}$ [\[7\] soluzione](#)
21. $4 + 51 : \{12 + 3 \cdot [9 \cdot 4 - 9 \cdot (24 : 6 - 2) : 6] - 60\}$ [\[5\] soluzione](#)
22. $(7 + 4 + 8 : 2 - 6 : 3) \cdot (53 - 3 \cdot 10 + 2 \cdot 5 - 8 \cdot 4)$ [\[13\] soluzione](#)
23. $6 + 5 : 5 + 10 \cdot (20 : 2 - 5 \cdot 2) + (42 + 6 \cdot 2 - 6 \cdot 9) : 2$ [\[7\] soluzione](#)
24. $(9 : 3 + 7 \cdot 4) : (17 + 4 + 12 - 2) + 25 \cdot 4 : 10$ [\[1\] soluzione](#)
25. $(27 : 9 + 4 \cdot 5 - 2) : 7 + (26 + 4) : 15 \cdot 2$ [\[7\]](#)
26. $[18 + 3 \cdot 2 - (2 + 3 + 4) \cdot (3 \cdot 2 - 6)] - 5 \cdot 4$ [\[4\]](#)
27. $[25 : 5 \cdot 2 : 5 \cdot 17 + 15 \cdot (7 - 5)] : 16$ [\[4\]](#)
28. $\{7 \cdot 7 + 10 - [5 \cdot 8 + 1 - (25 \cdot 2) : 5]\} : 14 + 9 \cdot 9 : (29 - 5 \cdot 4)$ [\[1\]](#)
29. $\{[(100 + 250 : 25 - 6 \cdot 2 : 3) \cdot (7 - 2 \cdot 3) + 4] : (9 - 4 \cdot 2) + 6\} : 4$ [\[29\]](#)
30. $[(2 \cdot 18 + 2 \cdot 2 - 6 \cdot 3) \cdot 2 - 7] : 3 + (15 - 4 \cdot 3 - 2) \cdot 11 - 12$ [\[11\]](#)
31. $\{6 + [2 \cdot 9 : (5 \cdot 4 - 6 : 3) - 1]\} : \{[(12 \cdot 5 - 2 \cdot 18) : 2 - 12 + (35 \cdot 2 - 43) : 3] : 3 \cdot 2\}$ [\[1\]](#)
32. $4 \cdot 25 - \{3 \cdot 7 - [50 + (16 - 12) - (8 + 6 - 12) - 7 \cdot 5] + 19\} - 7 \cdot 11$ [\[2\]](#)
33. $24 - 56 : 7 + (12 \cdot 2 - 69 : 3) + 6 \cdot 4 : 2 - 9 \cdot 2$ [\[11\]](#)
34. $32 + \{95 - 2 \cdot [(7 \cdot 11 - 5 \cdot 14) \cdot 5 + 1]\} \cdot 3 - (100 - 1)$ [\[2\]](#)
35. $9 \cdot (25 - 8 - 11) - (5 + 11) \cdot 3 + 5 : 5 \cdot 3 : 3 - (49 + 17) : 11$ [\[1\]](#)
36. $(11 \cdot 3 - 3 \cdot 8) \cdot [14 \cdot 3 - (9 \cdot 5 + 3 - 20)] - 12 \cdot (13 \cdot 9 - 4 \cdot 27)$ [\[24\]](#)
37. $[(20 : 2 + 14 : 2) \cdot 12 + 18 : 3] : [5 \cdot (35 - 3 \cdot 11)]$ [\[21\]](#)
38. $(37 - 33) \cdot [7 + 7 \cdot 5 - (56 - 20)] - 5 \cdot (42 - 38)$ [\[4\]](#)
39. $(15 : 3 + 49 - 2 \cdot 5) : 4 + (6 \cdot 2 + 3 \cdot 3 - 16) \cdot 5$ [\[36\]](#)
40. $3 \cdot 14 \cdot \{9 : 3 \cdot [11 \cdot 2 \cdot (7 \cdot 4 - 14) : 11 - 20] + 30 - 39\} : 35 - 9 \cdot 2$ [\[0\]](#)
41. $5 + [32 - 6 \cdot 5 + (5 \cdot 4 - 28 : 7) : 4 - 3 \cdot 4] \cdot (8 \cdot 4 - 16 \cdot 2)$ [\[5\]](#)
42. $\{2 + [6 \cdot 6 : (12 - 6) + 6] : (6 - 3)\} : 2 + (5 - 12 : 3 + 3) + 6$ [\[13\]](#)

43. $\{9 \cdot 5 + 6 \cdot 6 \cdot (3 \cdot 5 - 3 \cdot 3) \cdot [9 - 4 \cdot (6 \cdot 3 - 2 \cdot 8)] - 49\} : (25 \cdot 8 + 3 \cdot 4)$ [\[1\]](#)
44. $17 + [(5 + 4 \cdot 6 - 2 \cdot 8) \cdot 3 + 15 \cdot 3] : (7 \cdot 3) + (3 \cdot 3 - 1) : 2$ [\[25\]](#)
45. $[(84 + 36 \cdot 3) : 8 + 8 \cdot 15] : 12 + (78 - 90 : 5) : 6$ [\[22\]](#)
46. $(36 : 6 + 4 : 2) \cdot (25 \cdot 2 - 5) : 9 - \{7 + [(14 : 7 + 2) + 5] : 9\} \cdot 5$ [\[0\]](#)
47. $5 \cdot 13 - \{[(6 \cdot 7 - 3 \cdot 5) - 7 \cdot 3] \cdot 2 - (7 \cdot 2 - 2 \cdot 3) + 2 \cdot 4\}$ [\[53\]](#)
48. $\{3 \cdot 3 \cdot 5 - 7 \cdot [5 \cdot 4 - 9 \cdot 2]\} - \{(2 \cdot 4) \cdot 5 - [(5 \cdot 3) \cdot 3 - (11 \cdot 3)] \cdot 3\}$ [\[27\]](#)
49. $\{9 \cdot 2 - [(3 \cdot 4) - (3 \cdot 5 + 1) : 2] \cdot 3\} : 2 + [5 \cdot (81 : 27) + 5 \cdot (6 : 3)] : 5$ [\[8\]](#)

Soluzioni

$$\begin{aligned}
 & [(\underline{12:4} + \underline{9:1} + \underline{15:5}) \cdot 2 - (\underline{1+1+8+16+1})] : 3 = \\
 & = [(\underline{3 + 9} + 3) \cdot 2 - (\underline{10+16+1})] : 3 = \\
 & = [(\underline{12 + 3}) \cdot 2 - (\underline{26+1})] : 3 = \\
 & = [\underline{15 \cdot 2} - 27] : 3 = \\
 & = [\underline{30 - 27}] : 3 = \\
 & = \underline{3 : 3} = \mathbf{1}
 \end{aligned}$$



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$$\begin{aligned}
 & \underline{12:6} + \underline{137:137} - [15+(\underline{8:4} - \underline{2:0}) : 2 - \underline{5:3}] = \\
 & = \underline{2 + 1} - [15+(\underline{2 - 0}) : 2 - 15] = \\
 & = 3 - [15+\underline{2 : 2} - 15] = \\
 & = 3 - [\underline{15+1-15}] = \quad \quad \quad (\text{perché } +15\text{...}-15 = 0) \\
 & = \underline{3 - 1} = \mathbf{[2]}
 \end{aligned}$$

$$\begin{aligned}
 & [26 : (2 + \underline{11 \cdot 2} - 2 + 4)] \cdot \{[\underline{10+(\underline{16:4})}] : (\underline{8+6-7}) + 2\} = \\
 & = [26 : (2 + \underline{22} - 2 + 4)] \cdot \{[\underline{10+4}] : (\underline{14-7}) + 2\} = \\
 & = [26 : (\underline{24 - 2} + 4)] \cdot \{\underline{14 : 7} + 2\} = \\
 & = [26 : (\underline{22 + 4})] \cdot \{\underline{2 + 2}\} = \\
 & = [\underline{26 : 26}] \cdot 4 = \\
 & = \underline{1 \cdot 4} = \mathbf{4}
 \end{aligned}$$

$$\begin{aligned}
 & \underline{32 : 4 : 2} - [26 - (\underline{81 : 9} \cdot 2 : 3 + 3 \cdot 6)] - 32 : 4 : 2 = \\
 & = \underline{8 : 2} - [26 - (\underline{9 \cdot 2} : 3 + 18)] - 8 : 2 : 2 = \\
 & = 4 - [26 - (\underline{18 : 3} + 18)] - 4 : 2 = \\
 & = 4 - [26 - (\underline{6 + 18})] - 2 = \\
 & = 4 - [\underline{26 - 24}] - 2 = \\
 & = 4 - 2 - 2 = \\
 & = 2 - 2 = \mathbf{0}
 \end{aligned}$$

$$\begin{aligned}
 & [(12 \cdot 2 + 3 \cdot 4 - 5 \cdot 6) \cdot (8 : 2 + 9 : 3 + 1 - 2 \cdot 4) \cdot (15 + 3)] \cdot 10 = \\
 & = [(24 + 12 - 30) \cdot (4 + 3 + 1 - 8) \cdot (18)] \cdot 10 = \\
 & = [(36 - 30) \cdot (8 - 8) \cdot (18)] \cdot 10 = \\
 & = [6 \cdot 0 \cdot 18] \cdot 10 = \\
 & = 0 \cdot 10 = \mathbf{0}
 \end{aligned}$$

$$\begin{aligned}
 & (14 + 4 - 12 - 3) : 3 + [27 - 5 \cdot 5 + (2 + 2 \cdot 3) \cdot 4 - (5 \cdot 6 + 1)] = \\
 & = (18 - 12 - 3) : 3 + [27 - 25 + (2 + 6) \cdot 4 - (30 + 1)] = \\
 & = (6 - 3) : 3 + [2 + 8 \cdot 4 - 31] = \\
 & = 3 : 3 + [2 + 32 - 31] = \\
 & = 1 + [34 - 31] = \\
 & = 1 + 3 = \mathbf{3}
 \end{aligned}$$

$$\begin{aligned} & [12 + 3 - 11 - 3 + (18 + 7 - 5 + 3 - 9) : 7] + 10 - 2 - 8 = \\ & = [15 - 11 - 3 + (25 - 5 + 3 - 9) : 7] + 10 - 2 - 8 = \\ & = [4 - 3 + (20 + 3 - 9) : 7] + 10 - 2 - 8 = \\ & = [1 + (23 - 9) : 7] + 10 - 2 - 8 = \\ & = [1 + 14 : 7] + 10 - 2 - 8 = \\ & = [1 + 2] + 10 - 2 - 8 = \\ & = 3 + 10 - 2 - 8 = \\ & = 13 - 2 - 8 = \\ & = 11 - 8 = \mathbf{3} \end{aligned}$$

$$\begin{aligned} & 51 : \{12 + 3 \cdot [2 \cdot 18 - 9 \cdot (24 \div 6 - 2) : 6] - 60\} + 7 = \\ & = 51 : \{12 + 3 \cdot [36 - 9 \cdot (4 - 2) : 6] - 60\} + 7 = \\ & = 51 : \{12 + 3 \cdot [36 - 9 \cdot 2 : 6] - 60\} + 7 = \\ & = 51 : \{12 + 3 \cdot [36 - 18 : 6] - 60\} + 7 = \\ & = 51 : \{12 + 3 \cdot [36 - 3] - 60\} + 7 = \\ & = 51 : \{12 + 3 \cdot 33 - 60\} + 7 = \\ & = 51 : \{12 + 99 - 60\} + 7 = \\ & = 51 : \{111 - 60\} + 7 = \\ & = 51 : 51 + 7 = \mathbf{8} \end{aligned}$$

$$\begin{aligned}
 & \{53 \cdot 2 + 20 - 5 \cdot [9 \cdot 5 - 12 \cdot (10 - 49 : 7)] - 18\} : (24 : 8 + 6) = \\
 & = \{106 + 20 - 5 \cdot [45 - 12 \cdot (10 - 7)] - 18\} : [3 + 6] = \\
 & = \{106 + 20 - 5 \cdot [45 - 12 \cdot 3] - 18\} : [9] = \\
 & = \{106 + 20 - 5 \cdot [45 - 36] - 18\} : 9 = \\
 & = \{106 + 20 - 5 \cdot 9 - 18\} : 9 = \\
 & = \{106 + 20 - 45 - 18\} : 9 = \text{oppure} = \{126 - 63\} : 9 = \{63\} : 9 = \mathbf{7} \\
 & = \{126 - 45 - 18\} : 9 = \\
 & = \{81 - 18\} : 9 = \\
 & = 63 : 9 = \mathbf{7}
 \end{aligned}$$

$$\begin{aligned}
 & 10 + ((120 - 21 \cdot 3 + 10 - 4) \cdot 2 : 3 - (6 \cdot 9 - (80 - 18 \cdot 4) \cdot 4) + 18) : 2 = \\
 & = 10 + \{(120 - 63 + 10 - 4) \cdot 2 : 3 - [54 - (80 - 72) \cdot 4] + 18\} : 2 = \\
 & = 10 + \{(57 + 10 - 4) \cdot 2 : 3 - [54 - 8 \cdot 4] + 18\} : 2 = \\
 & = 10 + \{(67 - 4) \cdot 2 : 3 - [54 - 32] + 18\} : 2 = \\
 & = 10 + \{63 \cdot 2 : 3 - 22 + 18\} : 2 = \\
 & = 10 + \{126 : 3 - 22 + 18\} : 2 = \\
 & = 10 + \{42 - 22 + 18\} : 2 = \\
 & = 10 + \{20 + 18\} : 2 = \\
 & = 10 + 38 : 2 = \\
 & = 10 + 19 = \mathbf{29}
 \end{aligned}$$

$$\begin{aligned}
 & (25 \cdot 2 + 10 \cdot 5) + 9 \cdot 8 : \{56 + 3 \cdot [5 + 6 \cdot (3 \cdot 4 - 10) - 17] - 5 \cdot 4\} = \\
 & = (50 + 50) + 9 \cdot 8 : \{56 + 3 \cdot [5 + 6 \cdot (12 - 10) - 17] - 5 \cdot 4\} = \\
 & = 100 + 9 \cdot 8 : \{56 + 3 \cdot [5 + 6 \cdot 2 - 17] - 20\} = \\
 & = 100 + 9 \cdot 8 : \{56 + 3 \cdot [5 + 12 - 17] - 20\} = \\
 & = 100 + 9 \cdot 8 : \{56 - 20\} = \\
 & = 100 + 9 \cdot 8 : 36 = \\
 & = 100 + 72 : 36 = \\
 & = 100 + 2 = \mathbf{102}
 \end{aligned}$$

$$\begin{aligned}
 & [(6 \cdot 10 - 2 \cdot 16 + 44 : 11) - 6 \cdot (39 : 13 \cdot 4 - 25 \cdot 4 : 10)] - (13 - 6 \cdot 2 + 8) = \\
 & = [(60 - 32 + 4) - 6 \cdot (3 \cdot 4 - 100 : 10)] - (13 - 12 + 8) = \\
 & = [(28 + 4) - 6 \cdot (12 - 10)] - (1 + 8) = \\
 & = [32 - 6 \cdot 2] - 9 = \\
 & = [32 - 12] - 9 = \\
 & = 20 - 9 = \mathbf{11}
 \end{aligned}$$

$$\begin{aligned}
 & \{19 + [7 \cdot 5 - (4 + 5 \cdot 2) \cdot 2] \cdot (7 \cdot 6 - 13 \cdot 3)\} : (3 + 15 : 3) = \\
 & = \{19 + [35 - (4 + 10) \cdot 2] \cdot (42 - 39)\} : (3 + 5) = \\
 & = \{19 + [35 - 14 \cdot 2] \cdot 3\} : 8 = \\
 & = \{19 + [35 - 28] \cdot 3\} : 8 = \\
 & = \{19 + 7 \cdot 3\} : 8 = \\
 & = \{19 + 21\} : 8 = \\
 & = 40 : 8 = \mathbf{5}
 \end{aligned}$$

grazie a Chiara S. per la segnalazione e la gara con papà (novembre 2006)

$$\begin{aligned}
 & \{1+3\cdot 25-[(2\cdot 10-6)\cdot 5-(15\cdot 2-2):(8-1)+2\cdot 5]\}: [8:(8-7\cdot 1)-(3\cdot 27-17):8] = \\
 & = \{1+75-[(20-6)\cdot 5-(30-2):7+10]\}: [8:(8-7)-(81-17):8] = \\
 & = \{1+75-[14\cdot 5-28:7+10]\}: [8:1-64:8] = \\
 & = \{1+75-[70-4+10]\}: [8-8] = \\
 & = \{1+75-76\}: [8-8] = \\
 & = 0:0
 \end{aligned}$$

indeterminata

$$\begin{aligned}
 & \{4\cdot 25+2\cdot 25+(3\cdot 5)\cdot [2\cdot 25-5\cdot (36:6-2\cdot 2)]-24\cdot 25\}: (27:3+1) = \\
 & = \{100+50+15\cdot [50-5\cdot (6-4)]-600\}: (9+1) = \\
 & = \{150+15\cdot [50-5\cdot 2]-600\}: 10 = \\
 & = \{150+15\cdot [50-10]-600\}: 10 = \\
 & = \{150+15\cdot 40-600\}: 10 = \\
 & = \{150+600-600\}: 10 = \\
 & = 150 : 10 = \mathbf{15}
 \end{aligned}$$

$$\begin{aligned}
 & \{1+3\cdot 26-[(20-2\cdot 3)\cdot 5-(3\cdot 5-2):(2\cdot 4-1)+2\cdot 5]\}: [2\cdot 4:(2\cdot 4-7)-(32-16):2] = \\
 & = \{1+3\cdot 26-[(20-6)\cdot 5-(15-2):(8-1)+10]\}: [8:(8-7)-(32-16):2] = \\
 & = \{1+78-[14\cdot 5-28:7+10]\}: [8:1-16:2] = \\
 & = \{1+78-[70-4+10]\}: [8-8] = \\
 & = \{1+78-76\}: 0 = \\
 & = \{79-76\}: 0 = \\
 & = 3:0 =
 \end{aligned}$$

impossibile

$$\begin{aligned}
 & \{[(138:3-2\cdot 20):3+56:7]:5+52:4\}:3+[12\cdot 2-(15+4)] = \\
 & = \{[(46-40):3+8]:5+13\}:3+[24-19] = \\
 & = \{[6:3+8]:5+13\}:3+5 = \\
 & = \{[2+8]:5+13\}:3+5 = \\
 & = \{10:5+13\}:3+5 = \\
 & = \{2+13\}:3+5 = \\
 & = 15:3+5 = 5+5 = \mathbf{10}
 \end{aligned}$$

$$\begin{aligned}
 & \{81-[(5\cdot 4-2\cdot 3)\cdot 5-(15\cdot 2-2):(2\cdot 4-1)+10]\} \cdot [8:(2\cdot 3-5)-64:8] = \\
 & = \{81-[(20-6)\cdot 5-(30-2):(8-1)+10]\} \cdot [8:(6-5)-8] = \\
 & = \{81-[14\cdot 5-28:7+10]\} \cdot [8:1-8] = \\
 & = \{81-[70-4+10]\} \cdot [8-8] = \\
 & = \{81-76\} \cdot 0 = \\
 & = 5 \cdot 0 = \mathbf{0}
 \end{aligned}$$

$$\begin{aligned}
 & 14\cdot 3:7:6 - (13\cdot 2 + 70\cdot 10) : \{93-[500:5 + (29-45:3):7+8]:5-5\}:11 = \\
 & = 42:7:6 - (26 + 700) : \{93-[100 + (29-15):7+8]:5-5\}:11 = \\
 & = 6:6 - 726 : \{93-[100 + 14:7+8]:5-5\}:11 = \\
 & = 1 - 726 : \{93-[100 + 2 + 8]:5-5\}:11 = \\
 & = 1 - 726 : \{93-110:5-5\}:11 = \\
 & = 1 - 726 : \{93-22-5\}:11 = \\
 & = 1 - 726 : 66 : 11 = \\
 & = 1 - 11 : 11 = 1 - 1 = \mathbf{0}
 \end{aligned}$$

$$\begin{aligned}
 & (200+9\cdot 5) : \{12\cdot 5-5\cdot [29\cdot 3+11-7\cdot (21:7+19\cdot 2-54:2)+(46:2+3\cdot 9):10]\} \\
 & = (200+45) : \{60-5\cdot [87+11-7\cdot (3+38-27)+(23+27):10]\} = \\
 & = 245 : \{60-5\cdot [98-7\cdot (41-27)+50:10]\} = \\
 & = 245 : \{60-5\cdot [98-7\cdot 14+5]\} = \\
 & = 245 : \{60-5\cdot [98-98+5]\} = \\
 & = 245 : \{60-5\cdot 5\} = \\
 & = 245 : \{60-25\} = \\
 & = 245 : 35 = \mathbf{7}
 \end{aligned}$$

$$\begin{aligned}
 & 4 + 51 : \{12 + 3 \cdot [9 \cdot 4 - 9 \cdot (24 : 6 - 2) : 6] - 60\} = \\
 & = 4 + 51 : \{12 + 3 \cdot [36 - 9 \cdot (4 - 2) : 6] - 60\} = \\
 & = 4 + 51 : \{12 + 3 \cdot [36 - 9 \cdot 2 : 6] - 60\} = \\
 & = 4 + 51 : \{12 + 3 \cdot [36 - 18 : 6] - 60\} = \\
 & = 4 + 51 : \{12 + 3 \cdot [36 - 3] - 60\} = \\
 & = 4 + 51 : \{12 + 3 \cdot 33 - 60\} = \\
 & = 4 + 51 : \{12 + 99 - 60\} = \\
 & = 4 + 51 : \{111 - 60\} = \\
 & = 4 + 51 : 51 = \\
 & = 4 + 1 = \mathbf{5}
 \end{aligned}$$

$$\begin{aligned}
 & (7 + 4 + 8 : 2 - 6 : 3) \cdot (53 - 3 \cdot 10 + 2 \cdot 5 - 8 \cdot 4) = \\
 & = (7 + 4 + 4 - 2) \cdot (53 - 30 + 10 - 32) = \\
 & = (11 + 4 - 2) \cdot (23 + 10 - 32) = \\
 & = (15 - 2) \cdot (33 - 32) = \\
 & = 13 \cdot 1 = \mathbf{13}
 \end{aligned}$$

$$\begin{aligned}
 & 6 + 5 : 5 + 10 \cdot (20 : 2 - 5 \cdot 2) + (42 + 6 \cdot 2 - 6 \cdot 9) : 2 = \\
 & = 6 + 1 + 10 \cdot (10 - 10) + (42 + 12 - 54) : 2 = \\
 & = 6 + 1 + 10 \cdot 0 + (54 - 54) : 2 = \\
 & = 6 + 1 + 0 : 2 = \\
 & = 6 + 1 + 0 = \mathbf{7}
 \end{aligned}$$

$$\begin{aligned}
 & (9 : 3 + 7 \cdot 4) : (17 + 4 + 12 - 2) + 25 \cdot 4 : 10 = \\
 & = (3 + 28) : (21 + 12 - 2) + 100 : 10 = \\
 & = 31 : (33 - 2) + 10 = \\
 & = 31 : 31 + 10 = \\
 & = 1 + 10 = \mathbf{11}
 \end{aligned}$$

$$\begin{aligned}
 & (27 : 9 + 4 \cdot 5 - 2) : 7 + (26 + 4) : 15 \cdot 2 = \\
 & = (3 + 20 - 2) : 7 + 30 : 15 \cdot 2 = \\
 & = (23 - 2) : 7 + 2 \cdot 2 = \\
 & = 21 : 7 + 4 = \\
 & = 3 + 4 = \mathbf{7}
 \end{aligned}$$

$$\begin{aligned}
 & [18 + 3 \cdot 2 - (2 + 3 + 4) \cdot (3 \cdot 2 - 6)] - 5 \cdot 4 = \\
 & = [18 + 6 - (5 + 4) \cdot (6 - 6)] - 20 = \\
 & = [18 + 6 - 9 \cdot 0] - 20 = \\
 & = [18 + 6] - 20 = \\
 & = 24 - 20 = \mathbf{4}
 \end{aligned}$$

$$\begin{aligned} & [25 : 5 \cdot 2 : 5 \cdot 17 + 15 \cdot (7 - 5)] : 16 = \\ & = [5 \cdot 2 : 5 \cdot 17 + 15 \cdot 2] : 16 = \\ & = [10 : 5 \cdot 17 + 30] : 16 = \\ & = [2 \cdot 17 + 30] : 16 = \\ & = [34 + 30] : 16 = \\ & = 64 : 16 = \mathbf{4} \end{aligned}$$

$$\begin{aligned} & \{7 \cdot 7 + 10 - [5 \cdot 8 + 1 - (25 \cdot 2) : 5]\} : 14 + 9 \cdot 9 : (29 - 5 \cdot 4) = \\ & = \{49+10-[40+1-50:5]\}:14+81:(29-20) = \\ & = \{59-[40+1-10]\}:14+81:9 = \\ & = \{59-[41-10]\}:14+9 = \\ & = \{59-31\}:14+9 = \\ & = 28:14+9 = \\ & = 2+9 = \mathbf{11} \end{aligned}$$

$$\begin{aligned} & \{[(100 + 250 : 25 - 6 \cdot 2 : 3) \cdot (7 - 2 \cdot 3) + 4] : (9 - 4 \cdot 2) + 6\} : 4 = \\ & = \{[(100 + 10 - 12 : 3) \cdot (7 - 6) + 4] : (9 - 8) + 6\} : 4 = \\ & = \{[(100 + 10 - 4) \cdot 1 + 4] : 1 + 6\} : 4 = \\ & = \{[(110 - 4) + 4] + 6\} : 4 = \\ & = \{[106 + 4] + 6\} : 4 = \\ & = \{110 + 6\} : 4 = \\ & = 116 : 4 = \mathbf{29} \end{aligned}$$

$$\begin{aligned}
 & [(2 \cdot 18 + 2 \cdot 2 - 6 \cdot 3) \cdot 2 - 7] : 3 + (15 - 4 \cdot 3 - 2) \cdot 11 - 12 = \\
 & = [(36 + 4 - 18) \cdot 2 - 7] : 3 + (15 - 12 - 2) \cdot 11 - 12 = \\
 & = [(40 - 18) \cdot 2 - 7] : 3 + (3 - 2) \cdot 11 - 12 = \\
 & = [22 \cdot 2 - 7] : 3 + 1 \cdot 11 - 12 = \\
 & = [44 - 7] : 3 + 11 - 12 = \\
 & = 36 : 3 + 11 - 12 = \\
 & = 12 + 11 - 12 = \mathbf{11}
 \end{aligned}$$

$$\begin{aligned}
 & \{6 + [2 \cdot 9 : (5 \cdot 4 - 6 : 3) - 1]\} : \{[(12 \cdot 5 - 2 \cdot 18) : 2 - 12 + (35 \cdot 2 - 43) : 3] : 3 \cdot 2\} = \\
 & = \{6 + [18 : (20 - 2) - 1]\} : \{[(60 - 36) : 2 - 12 + (70 - 43) : 3] : 3 \cdot 2\} = \\
 & = \{6 + [18 : 18 - 1]\} : \{[24 : 2 - 12 + 27 : 3] : 3 \cdot 2\} = \\
 & = \{6 + [1 - 1]\} : \{[12 - 12 + 9] : 3 \cdot 2\} = \\
 & = \{6 + 0\} : \{9 : 3 \cdot 2\} = \\
 & = 6 : \{3 \cdot 2\} = \\
 & = 6 : 6 = \mathbf{1}
 \end{aligned}$$

grazie ad Eleonora S. per la caparbia dimostrata e la segnalazione (novembre 2006)

$$\begin{aligned} & 4 \cdot 25 - \{3 \cdot 7 - [50 + (16 - 12) - (8 + 6 - 12) - 7 \cdot 5] + 19\} - 7 \cdot 11 = \\ & = 100 - \{21 - [50 + 4 - (14 - 12) - 35] + 19\} - 77 = \\ & = 100 - \{21 - [54 - 2 - 35] + 19\} - 77 = \\ & = 100 - \{21 - [52 - 35] + 19\} - 77 = \\ & = 100 - \{21 - 17 + 19\} - 77 = \\ & = 100 - \{3 + 19\} - 77 = \\ & = 100 - 21 - 77 = \\ & = 100 - 98 = \mathbf{[2]} \end{aligned}$$

$$\begin{aligned} & 24 - 56 : 7 + (12 \cdot 2 - 69 : 3) + 6 \cdot 4 : 2 - 9 \cdot 2 = \\ & = 24 - 8 + (24 - 23) + 24 : 2 - 18 = \\ & = 24 - 8 + 1 + 12 - 18 = \\ & = 16 + 1 + 12 - 18 = \\ & = 17 + 12 - 18 = \\ & = 29 - 18 = \mathbf{[11]} \end{aligned}$$

$$\begin{aligned}
 & 32 + \{95 - 2 \cdot [(7 \cdot 11 - 5 \cdot 14) \cdot 5 + 1]\} \cdot 3 - (100-1) = \\
 & = 32 + \{95 - 2 \cdot [(77 - 70) \cdot 5 + 1]\} \cdot 3 - 99 = \\
 & = 32 + \{95 - 2 \cdot [7 \cdot 5 + 1]\} \cdot 3 - 99 = \\
 & = 32 + \{95 - 2 \cdot [35 + 1]\} \cdot 3 - 99 = \\
 & = 32 + \{95 - 2 \cdot 36\} \cdot 3 - 99 = \\
 & = 32 + \{95 - 72\} \cdot 3 - 99 = \\
 & = 32 + 23 \cdot 3 - 99 = \\
 & = 32 + 69 - 99 = \\
 & = 101 - 99 = \mathbf{2}
 \end{aligned}$$

$$\begin{aligned}
 & 9 \cdot (25 - 8 - 11) - (5 + 11) \cdot 3 + 5 : 5 \cdot 3 : 3 - (49 + 17) : 11 = \\
 & = 9 \cdot (17-11) - 16 \cdot 3 + 1 \cdot 3 : 3 - 66 : 11 = \\
 & = 9 \cdot 6 - 48 + 3 : 3 - 6 = \\
 & = 54 - 48 + 1 - 6 = \\
 & = 6 + 1 - 6 = 1
 \end{aligned}$$

$$\begin{aligned}
 & (11 \cdot 3 - 3 \cdot 8) \cdot [14 \cdot 3 - (9 \cdot 5 + 3 - 20)] - 12 \cdot (13 \cdot 9 - 4 \cdot 27) = \\
 & = (33 - 24) \cdot [42 - (35+3-20)] - 12 \cdot (117-108) = \\
 & = 9 \cdot [42 - (38-20)] - 12 \cdot 9 = \\
 & = 9 \cdot [42 - 18] - 108 = \\
 & = 9 \cdot 14 - 108 = \\
 & = 132 - 108 = \mathbf{24}
 \end{aligned}$$

$$\begin{aligned}
 & [(20 : 2 + 14 : 2) \cdot 12 + 18 : 3] : [5 \cdot (35 - 3 \cdot 11)] = \\
 & = [(10 + 7) \cdot 12 + 6] : [5 \cdot (35 - 33)] = \\
 & = [17 \cdot 12 + 6] : [5 \cdot 2] = \\
 & = [204 + 6] : 10 = \\
 & = 210 : 10 = \mathbf{21}
 \end{aligned}$$

$$\begin{aligned}
 & (37 - 33) \cdot [7 + 7 \cdot 5 - (56 - 20)] - 5 \cdot (42 - 38) = \\
 & = 4 \cdot [7 + 35 - 36] - 5 \cdot 4 = \\
 & = 4 \cdot [42 - 36] - 20 = \\
 & = 4 \cdot 6 - 20 = \\
 & = 24 - 20 = \mathbf{4}
 \end{aligned}$$

$$\begin{aligned}
 & (15 : 3 + 49 - 2 \cdot 5) : 4 + (6 \cdot 2 + 3 \cdot 3 - 16) \cdot 5 = \\
 & = (5 + 49 - 10) : 4 + (12 + 9 - 16) \cdot 5 = \\
 & = (54 - 10) : 4 + (21 - 16) \cdot 5 = \\
 & = 44 : 4 + 5 \cdot 5 = \\
 & = 11 + 25 = \mathbf{36}
 \end{aligned}$$

$$\begin{aligned}
 & 3 \cdot 14 \cdot \{9 : 3 \cdot [11 \cdot 2 \cdot (7 \cdot 4 - 14) : 11 - 20] + 30 - 39\} : 35 - 9 \cdot 2 = \\
 & = 42 \cdot \{3 \cdot [22 \cdot (28 - 14) : 11 - 20] + 30 - 39\} : 35 - 18 = \\
 & = 42 \cdot \{3 \cdot [22 \cdot 14 : 11 - 20] + 30 - 39\} : 35 - 18 = \\
 & = 42 \cdot \{3 \cdot [2 \cdot 14 - 20] + 30 - 39\} : 35 - 18 = \\
 & = 42 \cdot \{3 \cdot [28 - 20] + 30 - 39\} : 35 - 18 = \\
 & = 42 \cdot \{3 \cdot 8 + 30 - 39\} : 35 - 18 = \\
 & = 42 \cdot \{24 + 30 - 39\} : 35 - 18 = \\
 & = 42 \cdot \{54 - 39\} : 35 - 18 = \\
 & = 42 \cdot 15 : 35 - 18 = \\
 & = 2 \cdot 3 \cdot 7 \cdot 3 \cdot 5 : (5 \cdot 7) - 18 = \\
 & = 2 \cdot 3 \cdot 3 - 18 = \\
 & = 18 - 18 = \mathbf{0}
 \end{aligned}$$

$$\begin{aligned}
 & 5 + [32 - 6 \cdot 5 + (5 \cdot 4 - 28 : 7) : 4 - 3 \cdot 4] \cdot (8 \cdot 4 - 16 \cdot 2) = \\
 & = 5 + [32 - 30 + (20 - 4) : 4 - 12] \cdot (32 - 32) = \\
 & = 5 + [2 + 16 : 4 - 12] \cdot 0 = \\
 & = 5 + 0 = \mathbf{5}
 \end{aligned}$$

$$\begin{aligned}
 & \{2 + [6 \cdot 6 : (12 - 6) + 6] : (6 - 3)\} : 2 + (5 - 12 : 3 + 3) + 6 = \\
 & = \{2 + [36 : 6 + 6] : 3\} : 2 + (5 - 4 + 3) + 6 = \\
 & = \{2 + [6 + 6] : 3\} : 2 + (1 + 3) + 6 = \\
 & = \{2 + 12 : 3\} : 2 + 4 + 6 = \\
 & = \{2 + 4\} : 2 + 4 + 6 = \\
 & = 6 : 2 + 4 + 6 = \\
 & = 3 + 4 + 6 = \\
 & = 7 + 6 = \mathbf{13}
 \end{aligned}$$

$$\begin{aligned}
 & \{9 \cdot 5 + 6 \cdot 6 \cdot (3 \cdot 5 - 3 \cdot 3) \cdot [9 - 4 \cdot (6 \cdot 3 - 2 \cdot 8)] - 49\} : (25 \cdot 8 + 3 \cdot 4) = \\
 & = \{45 + 36 \cdot (15 - 9) \cdot [9 - 4 \cdot (18 - 16)] - 49\} : (200 + 12) = \\
 & = \{45 + 36 \cdot 6 \cdot [9 - 4 \cdot 2] - 49\} : 212 = \\
 & = \{45 + 216 \cdot [9 - 8] - 49\} : 212 = \\
 & = \{45 + 216 - 49\} : 212 = \\
 & = \{261 - 49\} : 212 = \\
 & = 212 : 212 = \mathbf{1}
 \end{aligned}$$

$$\begin{aligned}
 & 17 + [(5 + 4 \cdot 6 - 2 \cdot 8) \cdot 3 + 15 \cdot 3] : (7 \cdot 3) + (3 \cdot 3 - 1) : 2 = \\
 & = 17 + [(5 + 24 - 16) \cdot 3 + 45] : 21 + (9 - 1) : 2 = \\
 & = 17 + [(29 - 16) \cdot 3 + 45] : 21 + 8 : 2 = \\
 & = 17 + [13 \cdot 3 + 45] : 21 + 4 = \\
 & = 17 + [39 + 45] : 21 + 4 = \\
 & = 17 + 84 : 21 + 4 = \\
 & = 17 + 4 + 4 = \\
 & = 21 + 4 = \mathbf{25}
 \end{aligned}$$

$$\begin{aligned}
 & [(84 + 36 \cdot 3) : 8 + 8 \cdot 15] : 12 + (78 - 90 : 5) : 6 = \\
 & = [(84 + 108) : 8 + 8 \cdot 15] : 12 + (78 - 18) : 6 = \\
 & = [192 : 8 + 120] : 12 + 60 : 6 = \\
 & = (24 + 120) : 12 + 10 = \\
 & = 144 : 12 + 10 = \\
 & = 12 + 10 = \mathbf{22}
 \end{aligned}$$


$$\begin{aligned}
 & (36 : 6 + 4 : 2) \cdot (25 \cdot 2 - 5) : 9 - \{7 + [(14 : 7 + 2) + 5] : 9\} \cdot 5 = \\
 & = (6 + 2) \cdot (50 - 5) : 9 - \{7 + [(2 + 2) + 5] : 9\} \cdot 5 = \\
 & = 8 \cdot 45 : 9 - \{7 + [4 + 5] : 9\} \cdot 5 = \\
 & = 360 : 9 - \{7 + 9 : 9\} \cdot 5 = \\
 & = 40 - \{7 + 1\} \cdot 5 = \\
 & = 40 - 8 \cdot 5 = \\
 & = 40 - 40 = \mathbf{0}
 \end{aligned}$$

$$\begin{aligned}
 & 5 \cdot 13 - \{[(6 \cdot 7 - 3 \cdot 5) - 7 \cdot 3] \cdot 2 - (7 \cdot 2 - 2 \cdot 3) + 2 \cdot 4\} = \\
 & = 65 - \{[(42 - 15) - 21] \cdot 2 - (14 - 6) + 8\} = \\
 & = 65 - \{[27 - 21] \cdot 2 - 8 + 8\} = \\
 & = 65 - \{6 \cdot 2 - 8 + 8\} = \\
 & = 65 - \{12 - 8 + 8\} = \quad \text{oppure } \{12 - 8 + 8\} = 12 \\
 & = 65 - \{4 + 8\} = \\
 & = 65 - 12 = \mathbf{53}
 \end{aligned}$$


$$\begin{aligned}
 & \{3 \cdot 3 \cdot 5 - 7 \cdot [5 \cdot 4 - 9 \cdot 2]\} - \{(2 \cdot 4) \cdot 5 - [(5 \cdot 3) \cdot 3 - (11 \cdot 3)] \cdot 3\} = \\
 & = \{9 \cdot 5 - 7 \cdot [20 - 18]\} - \{8 \cdot 5 - [15 \cdot 3 - 33] \cdot 3\} = \\
 & = \{9 \cdot 5 - 7 \cdot 2\} - \{8 \cdot 5 - [45 - 33] \cdot 3\} = \\
 & = \{45 - 14\} - \{8 \cdot 5 - 12 \cdot 3\} = \\
 & = 31 - \{40 - 36\} = \\
 & = 31 - 4 = \mathbf{27}
 \end{aligned}$$


$$\begin{aligned} & \{9 \cdot 2 - [(3 \cdot 4) - (3 \cdot 5 + 1) : 2] \cdot 3\} : 2 + [5 \cdot (81 : 27) + 5 \cdot (6 : 3)] : 5 = \\ & = \{18 - [12 - (15 + 1) : 2] \cdot 3\} : 2 + [5 \cdot 3 + 5 \cdot 2] : 5 = \\ & = \{18 - [12 - 16 : 2] \cdot 3\} : 2 + [15 + 10] : 5 = \\ & = \{18 - [12 - 8] \cdot 3\} : 2 + 25 : 5 = \\ & = \{18 - 4 \cdot 3\} : 2 + 5 = \\ & = \{18 - 12\} : 2 + 5 = \\ & = 6 : 2 + 5 = 3 + 5 = \mathbf{8} \end{aligned}$$

Keywords

 *Matematica, Aritmetica, espressioni, Espressioni aritmetiche, N, addizione, sottrazione, moltiplicazione, divisione, esercizi con soluzioni, ordine operazioni, parentesi, parentesi tonde, parentesi quadre, parentesi graffe*

 *Math, Arithmetic, Expression, Arithmetic Operations, Addition, Subtraction, Multiplication, Division, Solved expressions*

 *Matemática, Aritmética, Adición, Expresiones, Resta, Sustracción, Suma, Adición, Multiplicación, División*

 *Mathématique, Arithmétique, Expression, Addition, Soustraction, Exercices de calcul et expression, Multiplication, Division*

 *Mathematik, Arithmetik, Subtraktion, Addition, Multiplikation, Division, Expression*