

$$\begin{aligned} & 3^2 + 2^5 \times 4 - 3^3 \times 3 + 24 : 2^3 - 5^2 \times 2 = \\ & = 9 + \underbrace{32 \times 4} - \underbrace{27 \times 3} + \underbrace{24 : 8} - \underbrace{25 \times 2} = \\ & = \underline{9} + 128 - 81 + 3 - 50 = \\ & = 137 - 81 + 3 - 50 = \\ & = 56 + 3 - 50 = \\ & = 58 - 50 = 8 \end{aligned}$$

$$\begin{aligned} & 6^2 - (2^3 \times 2 - 6 \times 2) + (4^2 \times 2 - 5^2) - 35 \times 2 = \\ & = 36 - (\underline{8 \times 2} - \underline{6 \times 2}) + (\underline{8^2} - 25) - \underline{35 \times 2} = \\ & = 36 - (16 - 12) + (64 - 25) - 70 = \\ & = 36 - 4 + 39 - 70 = \\ & = 32 + 39 - 70 = \\ & = 71 - 70 = 1 \end{aligned}$$

$$\begin{aligned}
& \left[5^2 + 2^2 + \left(\underbrace{8^3 : 2^3 - 4 \times 3 - 6^2} \right) - \underbrace{10^2 : 5^2} \right] + 4^2 - 7^2 = \\
& = \left[5^2 + 2^2 + \left(4^3 - 4 \times 3 - 6^2 \right) - 2^2 \right] + 4^2 - 7^2 = \\
& = \left[25 + 4 + \left(64 - 4 \times 3 - 36 \right) - 4 \right] + 16 - 49 = \\
& = \left[25 + 4 + \left(64 - 12 - 36 \right) - 4 \right] + 16 - 49 = \\
& = \left[25 + 4 + \left(52 - 36 \right) - 4 \right] + 16 - 49 = \\
& = \left[25 + \cancel{4} + 16 - \cancel{4} \right] + 16 - 49 = \\
& = 41 + 16 - 49 = \\
& = 57 - 49 = 8
\end{aligned}$$

PROPRIETÀ
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$$(10^2 \times 5^2) : 25^2 =$$

$$= 50^2 : 25^2 = 2^2$$

$$(4^2 \times 7^2) : (2^2 \times 2^2) \times 3^2 =$$

$$= 28^2 : 4^2 \times 3^2 =$$

$$= 7^2 \times 3^2 = 21^2$$

$$(3^6 \times 12^6) : (6^6 \times 6^6) =$$

$$= 36^6 : 36^6 = 1^6 \text{ oppure } 36^0$$

$$(7^4 \times 3^4) : 21^2 : 21 =$$

$$= 21^4 : 21^2 : 21 =$$

$$= 21^{4-2} : 21^{2-1} = 21$$

$$\begin{aligned}
& 2^2 \times 5^2 + 3^2 \times 2^3 : \{ 2^3 \times 7 + 3 \times [5 + 6 \times (2^9 - 2^8) - 17] - 2 \times 10 \} - 10^2 \\
& = 10^2 + 3^2 \times 2^3 : \{ 2^3 \times 7 + 3 \times [5 + 6 \times 2 - 17] - 2 \times 10 \} - 10^2 = \\
& = 100 + 9 \times 8 : \{ 8 \times 7 + 3 \times [5 + 12 - 17] - 2 \times 10 \} - 100 = \\
& = 100 + 72 : \{ 56 + 3 \times 0 - 20 \} - 100 = \\
& = 100 + 72 : \{ 56 + 0 - 20 \} - 100 = \\
& = \cancel{100} + 72 : 36 - \cancel{100} = \\
& = 100 + 2 - 100 = 2
\end{aligned}$$