

Correction Exo Priorité

mardi 4 octobre 2022 11:29

A: $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10$

$$\begin{aligned} A &= 1+9 + 2+8 + 3+7 + 4+6 + 5 \\ &= 10 + 10 + 10 + 10 + 5 \\ &= 45 \end{aligned}$$

B: $1 + 28 * 9 / 3 + 26 - 39 * 4 / 13 + 2 - 1 * 4$

$$\begin{aligned} B &= 1 + \underline{28 \times 9 : 3} + 26 - \underline{39 \times 4 : 13} + 2 - \underline{1 \times 4} \\ &= 1 + 84 + 26 - 12 + 2 - 4 \\ &= 111 + 2 - 16 \\ &= 113 - 16 \\ &= 97 \end{aligned}$$

Handwritten notes: $28 \times 3 = 84$, $39 : 13 \times 4 = 3 \times 4 = 12$

$$\begin{aligned} 39 \times 4 &= 40 \times 4 - 4 \\ 160 - 4 &= 156 \end{aligned}$$

$$\begin{array}{r} 156 \\ 26 \overline{) 13} \\ 0 \end{array}$$

C: $1 + 28 * 9 / 3 + (26 - 39) * 4 / 13 + (2 - 1) * 4$

$$\begin{aligned} C &= 1 + \underline{28 \times 9 : 3} - \underline{13 \times 4 : 13} + \underline{1 \times 4} \\ &= 1 + 84 - 4 + 4 \\ &= 85 \end{aligned}$$

Handwritten notes: $60 + 24$, $20 \times 3 + 8 \times 3$, $28 \times 3 = 84$, $13 : 13 \times 4 = 4$



D: $1 * 28 + 9 / 3 * (22 - 39) * 4 + 13 + 2 - 1 * 4$

$$\begin{aligned} D &= \underline{1 \times 28} + \underline{9 : 3 \times 17 \times 4} + 13 + 2 - \underline{1 \times 4} \\ &= 28 - 204 + 13 + 2 - 4 \\ &= 232 + 15 - 4 \\ &= 247 - 4 \\ &= 243 \end{aligned}$$

Handwritten note: $9 : 3 \times 4 \times 17 = 3 \times 4 \times 17 = 12 \times 17 = 10 \times 17 + 2 \times 17 = 170 + 34 = 204$

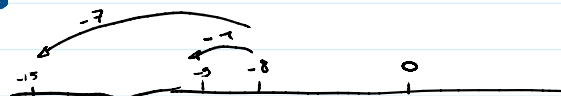
$$\begin{aligned} &= \cancel{7} \times 5 \times \cancel{3} \times 2 / 1 / \cancel{3} / \cancel{7} \times 9 \\ &= 5 \times 2 : 1 \times 9 \\ &= 10 \times 9 = 90 \end{aligned}$$

E: $1 * 2 * 3 * 4 * 5 * 6 * 1 * 2 * 3 * 4 * 5 * 6 = 1 \times 2 / 2 \times 3 / 3 \times 4 / 4 \times 5 / 5 \times 7 / 7 \times 8 / 8 \times 9 / 9 \times 6$

$$\begin{aligned} E &= 1 \times 6 \\ &= 6 \end{aligned}$$

F: $\underbrace{-((5-13)-(2+5))}_{\times 1} * \underbrace{((5-13)-(2+5))}_{\times 2} + \underbrace{(((5-13)-(2+5))-((5-13)-(2+5)))}_{\times 3} * \underbrace{((5-13)-(2+5))}_{\times 4}$

$$\begin{aligned} 11: &= -((5-13)-(2+5)) \\ &= -(-8-7) \\ &= -(-15) \\ &= +15 \end{aligned}$$



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$$\begin{aligned} F &= -(15 \times 15) + ((15 - (15 \times 15))) \\ &= -225 + -210 \\ &= -435 \end{aligned}$$

$$\begin{aligned} 15 \times 15 &= 10 \times 15 + 5 \times 15 = 10 \times 15 + 5 \times 10 + 5 \times 5 \\ &= 150 + 50 + 25 \end{aligned}$$

$$\begin{aligned} 15 - 225 &= -210 \\ &= 225 \end{aligned}$$

Handwritten note: $\frac{225}{-15} = -15$