

Spotting Mistakes with BEDMAS Rules

For each example given, a full solution has been provided. Your task is to find where BEDMAS was not followed.

- Circle or indicate what step BEDMAS was not followed correctly.
- Hint: every solution goes one step at a time, so you should try to find what step was done and determine if that was an allowed step, according to BEDMAS.
- Write a corrected version from the step that went wrong, showing every step.

Question 1

$$\begin{aligned}14 + (25 - 9 \times 2) + 7 \\&= 14 + (16 \times 2) + 7 \\&= 14 + 32 + 7 \\&= 53\end{aligned}$$

Question 2

$$\begin{aligned}(64 \div 8 \times 3) \div 6 + 6 \\&= (8 \times 3) \div 6 + 6 \\&= 24 \div 12 \\&= 2\end{aligned}$$

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Question 3

$$\begin{aligned} & \frac{1}{2} \times \frac{5}{3} + (4 \times \frac{1}{3}) \\ &= \frac{1}{2} \times \frac{5}{3} + \frac{4}{3} \\ &= \frac{1}{2} \times \frac{9}{3} \\ &= \frac{9}{6} \\ &= \frac{2}{3} \end{aligned}$$

Question 4

$$\begin{aligned} & (\frac{2}{3} + \frac{1}{4}) + 2 \times 5 - 10 \\ &= (\frac{8}{12} + \frac{3}{12}) + 2 \times 5 - 10 \\ &= \frac{11}{12} + 2 \times 5 - 10 \\ &= \frac{11}{12} + \frac{24}{12} \times 5 - 10 \\ &= \frac{35}{12} \times \frac{5}{1} - 10 \\ &= \frac{175}{12} - 10 \\ &= \frac{175}{12} - \frac{120}{12} \\ &= \frac{55}{12} \end{aligned}$$

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Question 5

$$\begin{aligned} & 0 \times \frac{1}{2} + \frac{1}{8} - 4 \times 0 \\ &= 0 \times \frac{4}{8} + \frac{1}{8} - 4 \times 0 \\ &= 0 \times \frac{5}{8} - 4 \times 0 \\ &= 0 - 4 \times 0 \\ &= 0 - 0 \\ &= 0 \end{aligned}$$

Question 6

$$\begin{aligned} & \left(\frac{1}{2} + (4 + 3) \times \frac{3}{2} \right) + 5 \\ &= \left(\frac{1}{2} + 4 + \frac{9}{2} \right) + 5 \\ &= \left(\frac{1}{2} + \frac{8}{2} + \frac{9}{2} \right) + 5 \\ &= \left(\frac{9}{2} + \frac{9}{2} \right) + 5 \\ &= \frac{18}{2} + 5 \\ &= \frac{18}{2} + \frac{10}{2} \\ &= \frac{28}{2} \\ &= 14 \end{aligned}$$