

BEDMAS manipulations

Brackets, Exponent, Division, Multiplication, Addition, Subtraction

$$\textcircled{1} \quad (4+2)/2 + 3$$

$$\textcircled{1} \quad (4+2) = 6$$

$$\textcircled{2} \quad 12 = 3$$

$$\textcircled{3} \quad + 3 = \boxed{6} \checkmark$$

$$\textcircled{2} \quad (3-1)(3+1)/(5-1)$$

$$\textcircled{1} \quad (3-1), (3+1), (5-1)$$

$$\begin{array}{ccc} 2 & 4 & 4 \\ \hline \end{array}$$

$$\textcircled{2} \quad 8/4 = \boxed{2} \checkmark$$

$$\textcircled{3} \quad 7(2 \times 3 + 1) + 2(3-1)$$

$$\textcircled{1} \quad (2 \times 3 + 1) = 7, (3-1) = 2$$

$$\textcircled{2} \quad 7(7) = 49 + 2(2) = 4$$

$$= \boxed{53} \checkmark$$

$$\textcircled{4} \quad (4(2+1) + 3(1-3))/3$$

$$\textcircled{1} \quad (2+1) = 3, (1-3) = -2$$

$$\textcircled{2} \quad (4(3) + 3(-2)) = 6$$

$$\textcircled{3} \quad 6/3 = \boxed{2} \checkmark$$

$$\textcircled{5} \quad \frac{1}{2} \text{ of } (1+3)/2$$

$$= ((1+3)/2)/2$$

$$\textcircled{1} \quad (1+3) = 4$$

$$\textcircled{2} \quad (4/2) = 2$$

$$\textcircled{3} \quad 2/2 = \boxed{1} \checkmark$$

$$\textcircled{6} \quad (3-1)^2/4 + 2$$

$$\textcircled{1} \quad (3-1) = 2$$

$$\textcircled{2} \quad (2)^2 = 4$$

$$\textcircled{3} \quad 4/4 = 1$$

$$\textcircled{4} \quad 1+2 = \boxed{3} \checkmark$$

$$\textcircled{7} \quad 8/(8/2^2) + 2^3$$

$$\textcircled{1} \quad (8/2^2)$$

$$\textcircled{2} \quad (8/4) = 2$$

$$\textcircled{3} \quad 8/2 = 4$$

$$\textcircled{4} \quad + (2)^3 = 8$$

$$\therefore 4+8 = \boxed{12} \checkmark$$