

Day 3: BEDMAS II

Practice:

$$\begin{aligned}
 1. & [-8 + (-9)(3)] \div [(-15) - (20)] \\
 & = [-8 + (-27)] \div (-15 - 20) \\
 & = (-8 - 27) \div (-35) \\
 & = (-35) \div (-35) \\
 & = \boxed{1}
 \end{aligned}$$

$$\begin{aligned}
 2. & (36) \div [(-14) - (-11)] + 4 \\
 & = 36 \div (-14 + 11) + 4 \\
 & = 36 \div (-3) + 4 \\
 & = -12 + 4 \\
 & = -8
 \end{aligned}$$

$$\begin{aligned}
 3. & \frac{5+7}{3-9} = \frac{12}{-6} \\
 & = \boxed{-2}
 \end{aligned}$$

$$\begin{aligned}
 4. & \frac{9(-9+4)}{[(-1)+2 \times 3]} = \frac{9(-5)}{(-1+6)} \\
 & = \frac{-45}{5} \\
 & = \boxed{-9}
 \end{aligned}$$

$$\begin{aligned}
 5. & 2^3 - 3^2 = 8 - 9 \\
 & = \boxed{-1}
 \end{aligned}$$

$$\begin{aligned}
 6. & 2 \cdot 3 - 4 \cdot 2 + 7 = 6 - 8 + 7 \\
 & = \boxed{5}
 \end{aligned}$$

$$\begin{aligned}
 7. & 5(-1) + 6(-2) = -5 - 12 \\
 & = \boxed{-17}
 \end{aligned}$$

$$\begin{aligned}
 8. & (-2)(3) - (-1)(7) - (-2) \\
 & = -6 - (-7) + 2 \\
 & = -6 + 7 + 2 \\
 & = \boxed{3}
 \end{aligned}$$

$$\begin{aligned}
 9. & 3 + 2^2 - 16 \cdot 3^2 \\
 & = 3 + 4 - 16 \cdot 9 \\
 & = 3 + 4 - 144 \\
 & = \boxed{-137}
 \end{aligned}$$

$$\begin{aligned}
 10. & 6 + (3-4) - 2 \\
 & = 6 + (-1) - 2 \\
 & = 6 - 1 - 2 \\
 & = \boxed{3}
 \end{aligned}$$

$$\begin{aligned}
 11. & 6 + 3 - (4-2) \\
 & = 6 + 3 - (2) \\
 & = 6 + 3 - 2 \\
 & = \boxed{7}
 \end{aligned}$$

$$\begin{aligned}
 12. & 3^2 - 8 \cdot 2 + 7^2 - 35 \\
 & = 9 - [8 \cdot 2] + 49 - 35 \\
 & = 9 - 16 + 49 - 35 \\
 & = \boxed{7}
 \end{aligned}$$

$$\begin{aligned}
 13. & -4(2^3) - 6 \\
 & = -4(8) - 6 \\
 & = -32 - 6 \\
 & = \boxed{-38}
 \end{aligned}$$

$$\begin{aligned}
 14. & (8-2)^2 \\
 & = (6)^2 \\
 & = \boxed{36}
 \end{aligned}$$

$$\begin{aligned}
 15. & (4-6)^2 \\
 & = (-2)^2 \\
 & = \boxed{4}
 \end{aligned}$$

$$\begin{aligned}
 16. & 4-6^2 \\
 & = 4-36 \\
 & = \boxed{-32}
 \end{aligned}$$

$$\begin{aligned}
 17. & \overset{L}{[32 \div (-4)]} \overset{R}{\div 2} \\
 & = (-8) \div 2 \\
 & = \boxed{-4}
 \end{aligned}$$

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$$18. 32 \div [(-4) \div 2]$$

$$= 32 \div (-2)$$

$$= \boxed{-16}$$

$$21. 2(8 + 3) - 4(7 + 2)$$

$$= 2(11) - 4(9)$$

$$= 22 - 36$$

$$= \boxed{-14}$$

$$24. 5 + 10 - 3^2$$

$$= 5 + 10 - 9$$

$$= \boxed{6}$$

$$27. (5 + 7) \div 2^2$$

$$= (12) \div 4$$

$$= \boxed{3}$$

$$30. 9^2 - (20 + 11)$$

$$= 81 - (31)$$

$$= 81 - 31$$

$$= \boxed{50}$$

$$33. (1 + 5) - 5 - 7 - 4$$

$$= (6) - 5 - 7 - 4$$

$$= 6 - 5 - 7 - 4$$

$$= \boxed{-10}$$

$$36. 6(5 + 0)^2$$

$$= 6(5)^2$$

$$= 6(25)$$

$$= \boxed{150}$$

$$19. \frac{4 - 3^2}{8^2 + 2}$$

$$= \frac{4 - 9}{64 + 2}$$

$$= \frac{-5}{66}$$

$$22. \frac{8 - 4^2 + 3}{4 \cdot 2 - 3^2 + 9} = \frac{8 - 16 + 3}{4 \cdot 2 - 9 + 9}$$

$$= \frac{-5}{8 - 9 + 9}$$

$$= \frac{-5}{8}$$

$$= -0.625$$

$$25. 6 \cdot 4 + 5^2 - 11$$

$$= 24 + 25 - 11$$

$$= \boxed{38}$$

$$28. 5^2 - 4^2 + 3 \cdot 2$$

$$= 25 - 16 + \boxed{3 \cdot 2}$$

$$= 25 - 16 + 6$$

$$= \boxed{15}$$

$$31. (2 + 3) \cdot 10^2 + 5^2$$

$$= (5) 100 + 25$$

$$= 500 + 25$$

$$= \boxed{525}$$

$$34. 0 \cdot 15^2 - (400 + 21) \div 19^2$$

$$= 0 \cdot 225 - (421) \div 361$$

$$= 0 - (421) \div 361$$

$$= \boxed{-1.7}$$

$$37. (7 - 7) \cdot 33^2 \div (45 + 3)^2$$

$$= (0) \cdot 33^2 \div (48)^2$$

$$= 0 \div (48)^2$$

$$= \boxed{0}$$

$$20. \frac{7^2 - 8^2 + 1^3}{2^3 + 3^2 - 2^3} = \frac{49 - 64 + 1}{8 + 9 - 8}$$

$$= \frac{-14}{9}$$

$$23. \frac{(2)3 - 4(5) + 6}{-20 \div (-5) \div 8} = \frac{6 - 20 + 6}{4 \div 8}$$

$$= \frac{-8}{0.5}$$

$$= \boxed{-16}$$

$$26. 7 \cdot (2 + 3) - 21$$

$$= 7(5) - 21$$

$$= 35 - 21$$

$$= \boxed{14}$$

$$29. (8)9 - 6^2 + 4$$

$$= (8)9 - 36 + 4$$

$$= 72 - 36 + 4$$

$$= \boxed{40}$$

$$32. 3 - (30 + 4) - 7^2$$

$$= 3 - (34) - 49$$

$$= 3 - 34 - 49$$

$$= \boxed{-80}$$

$$35. 0 \cdot 1^2 \cdot (59 + 92) + 5$$

$$= 0 + 5$$

$$= \boxed{5}$$

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$$\begin{aligned} 38. & (233+18) \div 250 + 3 \cdot 33 \\ & = (251) \div 250 + 99 \\ & = 1.004 + 99 \\ & = 100.004 \end{aligned}$$

$$41. \frac{10 \cdot (25+7)}{(5+3)^2}$$

$$\begin{aligned} & = \frac{10(32)}{(8)^2} \\ & = \frac{320}{64} \\ & = \boxed{5} \end{aligned}$$

$$\begin{aligned} 39. & \frac{5 \cdot 30}{15} - (3+3) \\ & = \frac{150}{15} - (6) \\ & = 10 - 6 \\ & = \boxed{4} \end{aligned}$$

$$42. \frac{25 \cdot (6+7) - 5^2}{(6+7)^2 - 19}$$

$$\begin{aligned} & = \frac{25(13) - 25}{(13)^2 - 19} \\ & = \frac{325 - 25}{169 - 19} \\ & = \frac{300}{150} \\ & = \boxed{2} \end{aligned}$$

$$\begin{aligned} 40. & \frac{(10+14) \cdot 200}{10^2} \\ & = \frac{(24)200}{100} \\ & = \frac{4800}{100} \\ & = \boxed{48} \end{aligned}$$