



اولویت اعمال در محاسبات

- ① داخل پرانتز
- ② توان و جذر
- ③ ضرب و تقسیم
- ④ جمع و تفریق

نق: اولویت در اعمال بیساخته سه از سمت چپ

$$(EX) \quad \overbrace{7-11}^{-2} + 21 - 12 = \overbrace{-2+21}^{+19} - 12 = 19 - 12 = \boxed{7}$$

$$(EX) \quad -15 - \overbrace{(-7)}^{+7} - 2 = \overbrace{-15+7}^{-8} - 2 = -8 - 2 = \boxed{-10}$$

$$(EX) \quad -17 - \overbrace{(-9)}^{+9} - \overbrace{(-1)}^{+1} = \cancel{-17} + 9 + 1 = \cancel{-17} + 10 = -17 + 10 = \boxed{-7}$$

$$(EX) \quad 17 - 5 \overbrace{(2-2)}^{-2} + 3 = 17 + 10 + 3 = 17 + 3 = \boxed{20}$$



$$\text{(EX)} \quad 2 - (2 - (\overbrace{5-9}^{-2}) - 1) = 2 - (\overbrace{2 - (-2) - 1}^{+2}) = 2 - (\overbrace{2 + 2 - 1}^4) \\ = 2 - (4) = \underline{-2}$$

$$\text{(EX)} \quad 1 - \overbrace{2 \times 2}^{-12} = 1 - 12 = -11$$

$$\text{(EX)} \quad -2 - \overbrace{9 \div 3}^{-3} = -2 - 3 = \underline{-5}$$

$$\text{(EX)} \quad \cancel{2} - \cancel{3} + \cancel{2} - \cancel{1} = \overbrace{12 - 9}^{+3} + 2 - 1 = 3 + 2 - 1 = 11 - 1 = \underline{10}$$

$$\text{(EX)} \quad (\overbrace{12 \div (-3)}^{-4}) - (\overbrace{-2 - 1}^{-3}) \times (-4) = (-4) - (\overbrace{-3 \times (-4)}^{+12}) \\ = -4 - (12) = -16$$

$$\text{(EX)} \quad 5 - (2 - (\overbrace{3 \times 2 - 5}^4) - 1) = 5 - (\overbrace{2 - (2) - 1}^2) = 5 - 2 \\ = \underline{3}$$



(EX) $\left(\overset{9}{\cancel{1}^2} + \overset{0}{\cancel{0}} \right)^1 \div \left(\overset{3}{\cancel{1}} + \overset{2}{\cancel{9}} \right)^0 \times \boxed{\overset{3}{\cancel{1}}^2} = \left(\overset{9}{\cancel{1}} \right) \div (1) \times 1 = \overset{9}{\cancel{9} \div 1} \times 1 = 9 \times 1 = \boxed{9}$

(EX) $\overset{9}{\cancel{1}^2} - \overset{1}{\cancel{1}} \times \overset{0}{\cancel{1}} + \overset{1}{\cancel{1}} - \overset{1}{\cancel{1}} \times \overset{0}{\cancel{1}} - \overset{1}{\cancel{1}} (\overset{2}{\cancel{1}^2} - \overset{0}{\cancel{0}}) =$

$9 - \overset{0}{\cancel{1}} \times \overset{0}{\cancel{1}} + \overset{1}{\cancel{1}} - \overset{1}{\cancel{1}} \times \overset{0}{\cancel{1}} - \overset{1}{\cancel{1}} (\overset{2}{\cancel{1}} - \overset{0}{\cancel{0}}) = 9 - \overset{0}{\cancel{1}} + \overset{1}{\cancel{1}} - \overset{0}{\cancel{1}} - \overset{1}{\cancel{1}} (\overset{2}{\cancel{1}} - \overset{0}{\cancel{0}})$

$= \overset{-2}{\cancel{1}} \times \overset{0}{\cancel{1}} + \overset{1}{\cancel{1}} - \overset{0}{\cancel{1}} - \overset{1}{\cancel{1}} (\overset{2}{\cancel{1}} - \overset{0}{\cancel{0}}) = \overset{-2}{\cancel{1}} \times \overset{0}{\cancel{1}} + \overset{1}{\cancel{1}} - \overset{0}{\cancel{1}} - \overset{1}{\cancel{1}} (\overset{2}{\cancel{1}} - \overset{0}{\cancel{0}}) = \boxed{-12}$

نقطه

$\boxed{\overset{1}{\cancel{0}} = \overset{1}{\cancel{0}}}$

$\boxed{\overset{0}{\cancel{0}} = 1}$