Math 0370

01/23/2019

whole #s. $\{0, 1, 2, 3, \ldots\}$

$x + y = y + x$ $\qquad$ $5 + 2 = 2 + 5$

$xy = yx$ $\qquad$ $5(2) = 2(5)$

$5 - 2 \neq 2 - 5$

$5 \div 2 \neq 2 \div 5$

$(x + y) + z = x + (y + z)$ $\qquad$ $(2+3)+4 = 2 + (3+4)$

$(xy)z = x(yz)$ $\qquad$ $(2 \times 3) \times 4 = 2 \times (3 \times 4)$

$(x - y) - z \neq x - (y - z)$

33) $101 + 44 = \boxed{44} + \boxed{101}$

36) $t + q = \boxed{q} + \boxed{t}$

38) $7 + (12 + 8) = (7 + 12) + 8$

$n + 0 = 0 + n = n$ $\qquad$ $5 + 0 = 0 + 5 = 5$

$n \cdot 1 = 1 \cdot n = n$ $\qquad$ $5(1) = 1(5) = 5$

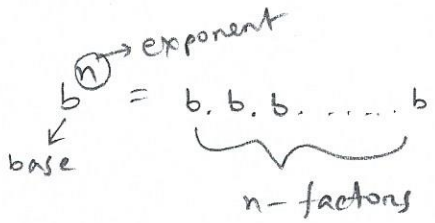
Left to right

① ( ), [ ], { } or | |

② Exp , or $\sqrt{\ }$

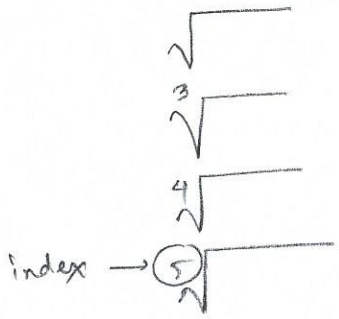
③ mult. or div.

④ Add. or subt.



$b^0 = 1$ $\quad 2^0 = 1$, $5^0 = 1$, $10^0 = 1$

$2 = 2^1$



$\sqrt{n^2} = n$ $\quad \sqrt{4} = 2$, $\sqrt{2^2} = 2$

$\sqrt{9} = 3$, $\sqrt{3^2} = 3$

$\sqrt{25} = 5$, $\sqrt{5^2} = 5$

48) $4 + 3.7$

$= 4 + 21$

$= 25$

50) $11 - 2^2$

$= 11 - 4$

$= 7$

52) $(11-2)^2$

$= (9)^2$

$= 81$

56) $41 - (13+8)$

$= 41 - 21$

$= 20$

60) $9 + 15 \div \sqrt{25}$

$= 9 + 15 \div 5$

$= 9 + 3$

$= 12$

62) $55 \div 11 \cdot 5$

$= 5.5$

$= 25$