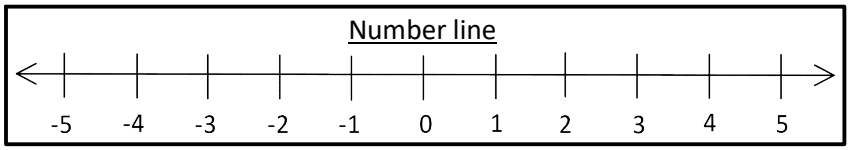
M8 - 8.0 - BEDMAS Notes



$2-4=$

$2 \longrightarrow$ starting point, place pen on 2

$- \longrightarrow$ "left," move left $\boxed{-ve = Left}$

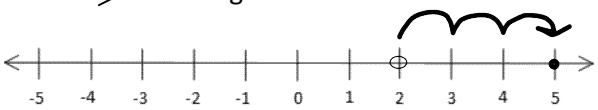
$4 \longrightarrow$ move left 4

$2+3=$

$2 \longrightarrow$ starting point, place pen on 2

$+ \longrightarrow$ "right," move right $\boxed{+ve = Right}$

$3 \longrightarrow$ move right 3



$2-4=\textcircled{-2}$ Check on Calculator! $2+3=\textcircled{5}$

Signs side by side

$+ + = +$	
$- - = +$	
$+ - = -$	
$- + = -$	

$5+(+2)$ Same Plus

$5+2=\textcircled{7}$

Two of the same sign side-by-side becomes a positive sign.

$7-(-4)$

$7+4=\textcircled{11}$

$*-2-2=-4 \neq 4$

$10+(-3)$ Different Minus

$10-3=\textcircled{7}$

$-2+(-3)$

$-2-3=\textcircled{-5}$

Two different signs side-by-side becomes negative.

$3 \times 3=$

$+3 \times +3=\textcircled{+9}$

Same Plus

$\frac{-9}{-3}=$

$\frac{-9}{-3}=\textcircled{+3}$

$+ \times + = +$	
$- \times - = +$	
$+ \div + = +$	
$- \div - = +$	

Multiply or divide numbers with two of the same sign is positive.

$3 \times -3=$

$+3 \times -3=\textcircled{-9}$

Different Minus

$\frac{-9}{3}=$

$\frac{-9}{+3}=\textcircled{-3}$

$+ \times - = -$	
$- \times + = -$	
$+ \div - = -$	
$- \div + = -$	

Multiply or divide numbers with two different signs is negative.

B - brackets 1st
E - exponents 2nd
D - division 3rd
M - multiplication 3rd } In Order From left to right
A - addition 4th
S - subtraction 4th } In Order From left to right

$2-3+4=$

$-1+4=\textcircled{3}$ $-$ 1st, $+$ 2nd

$3 \times 4+2=$

$12+2=\textcircled{14}$ $\times$ 1st, $+$ 2nd

$5 \times 4 \div 2=$

$20 \div 2=\textcircled{10}$ $\times 1st$, $\div 2nd$

$10-4 \div 2=$

$10-2=\textcircled{8}$ $\div$ 1st, $-$ 2nd

$3^2=3 \times 3=\textcircled{9}$

$2^3=2 \times 2 \times 2=\textcircled{8}$

$\times$ the base the # of times of the exponent.

$1^{\#}=0$

$0^{\#}=0, \# \neq 0$

Exponent goes down by one

$5^2=25$ $\div 5$

$5^1=5$ $\div 5$

$5^0=1$

$10^2=10 \times 10=\textcircled{100}$

$10^3=10 \times 10 \times 10=\textcircled{1000}$

The exponent is the # of zero's

$2^3+4=$

$\textcircled{2^3}+4=$

$8+4=\textcircled{12}$

Exponent ↙ $2^3=2 \times 2 \times 2=8$ ↖ Base

Down the page. Do side work off to the Right.

$2(3+4)^2=$

$2(7)^2=$

$2\textcircled{(7)^2}=$ $7^2=7 \times 7=49$

$2(49)=\textcircled{98}$

$7+(-2)+(-8)$

$7-2-8$

$5-8=\textcircled{-3}$

$-7+(-2)-(-8)$

$-7-2+8$

$-9+8=\textcircled{-1}$

$\frac{(2+3)}{(4+6)}=\frac{5}{10}=\frac{1}{2}$ ✓

$\frac{(3+7)}{5}-2(3-1)^2=$

$\frac{10}{5}-2(2)^2=$

$\frac{10}{5}-2(4)=$

$2-8=\textcircled{-6}$

$(+8) \times (-2)-(-4)$

$-16+4=\textcircled{-12}$

$(-8)-(+4) \div (-2)$

$-8-4 \div (-2)$

$-8+2=-6$

$\frac{200}{(4 \times 5)}=10$ ✓

$\frac{200}{4} \times 5=250$ ✓