

January 25, 2017

	N	W	Z	Q	Q'	R
$\sqrt{25}$	✓	✓	✓	✓	✓	✓
-0.0001				✓		✓
$\frac{8}{0}$	= undefined					
-2			✓	✓		✓
$5.\overline{56}$				✓		✓

Jan 25-9:02 AM

$-0.\overline{27}$

$100(x = -0.\overline{2727...})$

$100x = -27.2727...$

$x = -0.2727...$

$99x = -27$

$x = -\frac{27}{99}$

$= -\frac{3}{11}$

Jan 25-9:14 AM

$\frac{5}{11} = 11 \overline{) 5.0}$

	0.45
5.0	-44
	60
	-55
	50

$= 0.\overline{45}$

Jan 25-9:17 AM

$(-3)(5x + 9y + 3a - 4)$

$-15x - 27y - 9a + 12$

Jan 25-9:18 AM

Order of Operations

① Clear any Grouping Symbol (evaluate expressions inside grouping symbols)

$(), [], \{ \}, |a|, \sqrt{a}, \frac{a}{b}$

② Evaluate Exponents

$a^n \rightarrow 2^3 = 2 \cdot 2 \cdot 2$

$= 4 \cdot 2$

$= 8$

$-4^2 = (-1) \cdot 4^2$

$= (-1) \cdot 4 \cdot 4$

$= -4 \cdot 4$

$= -16$

Jan 25-9:20 AM

③ Do all Multiplications or Divisions which ever comes first working from left to right.

④ Do addition or subtraction left to right

Jan 25-9:29 AM

$$\begin{aligned}
 54 / (-9)(2) &= \frac{54}{(-9)} \cdot \frac{2}{1} \\
 &= -6 \cdot 2 \\
 &= \boxed{-12}
 \end{aligned}$$

$$\begin{aligned}
 54 / (-9)(2) &= 54 / -18 \\
 &= -3
 \end{aligned}$$

Jan 25-9:31 AM

$$\begin{aligned}
 54 / (-9)(2) &= \frac{54}{(-9)(2)} \\
 \frac{54}{(-9)} \cdot 2
 \end{aligned}$$

Jan 25-9:37 AM

$$\begin{aligned}
 -3 - 4[-3 - 4(-3 - 4)] \\
 -3 - 4[-3 - 4(-7)] \\
 -3 - 4[-3 + 28] \\
 -3 - 4[25] \\
 -3 - 100 = -3 + (-100) \\
 = \boxed{-103}
 \end{aligned}$$

Jan 25-9:39 AM

$$\begin{aligned}
 8 - (5 - 2)^3 + 6 \\
 8 - (3)^3 + 6 \\
 8 - 27 + 6 \\
 -19 + 6 \\
 \boxed{-13}
 \end{aligned}$$

Jan 25-9:43 AM

2 CORE 1.1 & 1.2

Jan 25-9:48 AM