

GSEMDAS

Date _____ Period _____

Evaluate each expression using GSEMDAS. Simplify completely, showing one step at a time (as demonstrated in the class notes), and box your final answer. By the way, when simplifying you should always do so completely. If problems include fractions, then demonstrate an ability to solve with fractions and leave your result as a fraction. Do the same for problems which include decimals.

1) $6^2 - 3$

2) $(12 - 3) \div -3$

3) $\frac{2}{3} \div 2\frac{2}{3} - 3\frac{1}{3}$

4) $-3\frac{2}{3} - \frac{5}{4} \div \frac{2}{3}$

5) $1.98 - 2.5 - -0.4$

6) $-4.9 - 3.8 - 5.2$

7) $\frac{4}{2 \cdot -2}$

8) $-\frac{3}{2} \cdot -3\frac{4}{5} + \frac{1}{3}$

9) $-3.103 + 5.028 - \frac{2.63}{3}$

10) $z - (z - 1) + x$; use $x = 5$, and $z = -3$

11) $-5 + p + p + r$; use $p = \frac{4}{3}$, and $r = -\frac{4}{3}$

12) $\frac{m^2q}{p}$; use $m = 5$, $p = 2.5$, and $q = -2.2$

13) $(-4 + -1 - 1 - -3) \div -1 + 5$

14) $5 - (-4 - 5 - 1 - (-2)^3)$

15) $\frac{5}{3} \div \left(\frac{4}{3} - \left(3\frac{2}{5} \cdot \frac{1}{6} \cdot \frac{-6}{5} - \frac{3}{2} \right) \right)$

16) $1\frac{1}{6} \cdot 2\frac{3}{4} + \left(\frac{2}{3} - \frac{1}{6} + 3\frac{1}{4} \right) \div \frac{1}{6}$

17) $1.1((-2.2)^2 \div -0.5 - 4^2)$

18) $|-1.9|(|1.465| \cdot -2.6) \div -2.5$

19) $r - (-4 - p - (p + 3) \div 4)$; use $p = 5$, and $r = -5$

20) $n - (m + p)(-2 - m \div 2)$; use $m = 2$, $n = 6$, and $p = -5$