

Key

Applied Math: Order of Operations DAY ONE

PEMDAS

Evaluate each expression.

1) $(7-2) \div 5$

$5 \div 5$

$\boxed{1}$

2) $(3+3)^2$

$(6)^2$

$\boxed{36}$

3) $(6-3)^2$

$(3)^2$

$\boxed{9}$

4) $5+(16+2) \div 3$

$5+18 \div 3$

$5+6$

$\boxed{11}$

5) $(-6 \times 2) \div -3$

$-12 \div -3$

$\boxed{4}$

6) $2+12 \div 2+1$

$2+6+1$

$\boxed{9}$

7) $-4-(1-5)-(-4)^2$

$-4-(-4)-(16)$

$~~-4+4~~-16$

$\boxed{-16}$

8) $-3 \times 2 \times 2(-3-1)$

$-3 \cdot 2 \cdot 2(-4)$

$-6 \cdot -8$

$\boxed{48}$

9) $(4-3)(1-(3+5)) \times 5$

$(1)(1-(8)) \cdot 5 = (1)(-7)(5) = \boxed{-35}$

10) $((-16 - (-2+1)) \times 2) \div 5$

$((-16 - (-1)) \cdot 2) \div 5$

$((-15) \cdot 2) \div 5 = -30 \div 5 = \boxed{-6}$

Evaluate each using the values given.

13) $y+z+2$; use $y=-6$, and $z=5$

$-6+5+2$

$-1+2$

$\boxed{1}$

14) $p(q \div 3 - p)$; use $p=-6$, and $q=-3$

$-6(-3 \div 3 - (-6))$

$-6(-3 \div 3 + 6)$

$-6(-1+6) \Rightarrow -6(5) = \boxed{-30}$

15) $z \div 6 + x + x - 5$; use $x=1$, and $z=6$

$6 \div 6 + 1 + 1 - 5$

$1 + 1 + 1 - 5$

$3 - 5$

$\boxed{-2}$

16) $x(z+3)+1+3-y$; use $x=6$, $y=-5$, and $z=2$

$6(2+3)+1+3-(-5)$

$6(5)+1+3+5$

$30+1+3+5$

$\boxed{39}$