

2 pts each →

Quiz #2

$24 + 1 = 25$  pts possible

**Directions:** Please show all your work since partial credit is given. Answers without the necessary work will receive no credit. And remember, have fun!

1. Simplify the following expressions.

a)  $3(-10)$

$-30$

A/N

b)  $-5 \cdot (-|-4| + 3)$

$-5 \cdot (-4 + 3)$

$-5 \cdot (-1)$

$5$

-1 (23 no (-)  
-35

c)  $-79 - 20$

$-(79 + 20)$

$-99$

$\begin{array}{r} 79 \\ 20 \\ \hline 99 \end{array}$

A/N

d)  $(-5)^4$

$(-5)(-5)(-5)(-5)$

$25 \cdot 25$

$625$

$\begin{array}{r} 25 \\ \times 25 \\ \hline 125 \\ 500 \\ \hline 625 \end{array}$

e)  $33 - (-22) - 66$

$33 + 22 - 66$

$55 - 66$

$55 - 66$

$-11$

$-1: -55$

$-1: -121$

f)  $-5(-6 - 2)$

$-5(-8)$

$40$

$-1: 20$

o

g)  $(3-7)(2-8)$  \_\_\_\_\_

$(-4)(-6)$

$\boxed{24}$

i)  $\frac{3+9(-1)}{5-7} =$  \_\_\_\_\_

$\frac{3-9}{5-7} = \frac{-6}{-2} = \boxed{3}$

$-\frac{1}{2}$  sign

$-1 = \frac{-6}{-2} \Big| \frac{-12}{-2} = 6$

k)  $\frac{9}{20} \cdot \frac{4}{3} =$  \_\_\_\_\_

$\frac{9 \cdot 4}{20 \cdot 3} = \frac{3 \cdot \cancel{3} \cdot 4}{5 \cdot \cancel{4} \cdot \cancel{3}}$

$= \boxed{\frac{3}{5}}$

$-\frac{1}{2}$  reduce

h)  $-3(4-7)+2(3+(-2))$  \_\_\_\_\_

$-3(-3) + 2(3-2)$

$9 + 2(1)$

$9 + 2$

$\boxed{11}$

j)  $\frac{7+3(17)^0}{17+3} =$  \_\_\_\_\_

$\frac{7+3 \cdot 1}{17+3} = \frac{10}{20} \div 10$

$= \boxed{\frac{1}{2}}$

$-\frac{1}{2} : \frac{20}{10} / \text{reducing}$

l)  $-\frac{2}{5} \cdot 20 =$  \_\_\_\_\_

$\frac{-2}{5} \cdot \frac{20}{1}$   $-\frac{1}{2}$  sign

$= \frac{-2 \cdot \cancel{8} \cdot 4}{\cancel{8} \cdot 1}$

$= \frac{-8}{1} = \boxed{-8}$