

+25pts

Name Key

Quiz #3

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. Solve the following equations for the appropriate variable.

a) $-8y = -56$ 7
 $\frac{-8}{-8} \frac{-56}{-8}$

$y = 7$

①: -7

c) $-9a + 4 = 31$ -3
 $\frac{-4}{-4} \frac{-4}{-4}) 1$
 $\frac{-9a = 27}{-9} \frac{-27}{-9}) 1$
 $a = -3$

b) $3(2x - 4) + 14 = 35$ _____

$6x - 12 + 14 = 35$) 1

$6x + (-12) + 14 = 35$

$6x + 2 = 35$) 1
 $\frac{-2}{-2}$

$6x = 33$) 1
 $\frac{6}{6}$

$x = 33 \div 6$
 $8 \div 3$

$-\frac{1}{2} : \frac{33}{6}$

$x = \frac{11}{2} \approx 5\frac{1}{2}$

d) $x + \frac{3}{4} = \frac{1}{8}$ _____

$\frac{-3}{4} \frac{-3}{4}) 1$

$x = -\frac{5}{8}$

$\frac{1}{8} - \frac{3}{4}$
 $\frac{1}{8} - \frac{6}{8} = 1$
 $-\frac{5}{8}$

① $-\frac{29}{24}$

2. Change 0.0205 to a fraction in lowest terms. _____

$$\frac{205}{10000} = \frac{41}{2000}$$

\uparrow \uparrow
 2 1

3. Simplify the following expressions.

a) $9.705 - 15.029$ _____

$$\begin{array}{r} 15.029 \\ -9.705 \\ \hline -5.324 \end{array}$$

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

②: $\begin{array}{r} 9.705 \\ -15.029 \end{array}$

b) $0.396 + 7 + 3.21$ 10.606

① 3.613

c) The product of 963.8 and 0.24

231.312

+1 d.p.
+2 #

d) $75 \div 4.4$

$$\begin{array}{r} 17.045 \\ 4.4 \overline{) 750.00} \\ \underline{44} \\ 310 \\ \underline{308} \\ 200 \\ \underline{176} \\ 240 \\ \underline{220} \\ 20 \end{array}$$

$\begin{array}{r} 244 \\ \underline{7} \\ 308 \\ \underline{44} \\ 5 \\ \hline 220 \end{array}$

+1 d.p.
+2 #