HOMEWORK: MATH INTERLUDES VI – SOLVING FORMULAS

Remember – neatness and completeness count. Also, you must show your work. The correct result without a sufficient amount of correct and appropriate work is worth zero points. Please remember to include this assignment in your Math Interludes Notebook.

1) Solve the given formula for the indicated variable. Show your work.

$I = prt$ (solve for r)

2) Solve the given formula for the indicated variable. Show your work.

$V = \frac{4}{3}\pi \cdot r^3$ (solve for r^3)

3) Solve each of the following equations for y.

a) $4y + 12x = 24$

b) $6x - 3y = 12$

4) Solve for y: $\frac{y-a}{b} = x$

5) Given $z = \frac{x-\mu}{\sigma}$.

    a) If $z = \frac{x-\mu}{\sigma}$, find z when $x = 7.9$, $\mu = 2.5$, and $\sigma = 6.0$

    b) If $z = \frac{x-\mu}{\sigma}$, find x when $z = 1.85$, $\mu = 1.35$, and $\sigma = 2.4$

    c) If $z = \frac{x-\mu}{\sigma}$, find x when $z = 4.2$, $\mu = 9.4$, and $\sigma = 1.7$

Math Interludes VI Homework:

1) $r = \frac{I}{pt}$	2) $r^3 = \frac{3V}{4\pi}$	3a) $y = 6 - 3x$	3b) $y = -4 + 2x$
4) $y = a + bx$	5a) $z = 0.9$	5b) $x = 5.79$	5c) $x = 16.54$