$257.35 = 2.5735 \times 10^{2}$

$0.000125 = 1.25 \times 10^{-4}$

$-1.43 \times 10^{4} = -14300$

$5.99 \times 10^{-3} = 0.00599$

$-600 \times 30 = -18{,}000$

$(-6 \times 10^{2})(3.0 \times 10^{1})$

-18×10^{3}

-1.8×10^{4}

$\frac{-600}{-30} = 20$

$\frac{40}{0.08} = \frac{4 \times 10^{1}}{8 \times 10^{-2}} = \frac{4}{8} \times 10^{1-(-2)}$

$= 0.5 \times 10^{3} = 5 \times 10^{2} = 500$

$\frac{-6 \times 10^{2}}{-3 \times 10^{1}} = \frac{-6}{-3} \times 10^{2-1}$

$= 2 \times 10^{1} =$

$\$16{,}400{,}000{,}000{,}000 = 1.64 \times 10^{13}$

EE

$314{,}000{,}000 \text{ people} = 3.14 \times 10^{8}$

$\frac{\$1.64 \times 10^{13}}{3.14 \times 10^{8} \text{ persons}}$

$0.52229 \times 10^{5} = 5.22 \times 10^{4} = \$52200/\text{person}$

$8+6(x-3)^2$ for $x=13 \Rightarrow$ $8+6(13-3)^2$

$8+6\cdot 10^2$

$8+6\cdot 100$

$8+600$

608

$8+6(x-3)(x-3)$

FOIL

$8+6(x^2-3x-3x+9)$

$8+6(x^2-6x+9)$

$8+6x^2-36x+54$

$6x^2-36x+62$ for $x=13 \Rightarrow 6(13)^2-36(13)+62$

$1014-468+62$

$546+62$

608

$x^2 + 4x - 7 \quad x = -5$

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

$25 + (-20) - 7$

$25 - 20 - 7$

$5 - 7$

-2

~~-5^2~~ $+ 4(-5) - 7$

$-3x^2 + 4xy - y^3$ for $\begin{cases} x = 5 \\ y = -1 \end{cases}$

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

$-3(25) + (-20) - (-1)$

$-75 - 20 + 1$

-94

Terms Coefficient

$M = -120x^2 + 998x + 590$

M = Calories needed

x = age group

$M = -120(4)^2 + 998(4) + 590$

$M = -120 \cdot 16 + 998 \cdot 4 + 590$

$M = -1920 + 3992 + 590$

$= 2072 + 590$

$= 2662$

$2700 - 2662 = 38$ Calories