Math 8

Gross

$$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$$ ← factors, product

$$\begin{array}{r} 12 \\ +15 \\ \hline 27 \end{array}$$ ← addens, sum

divisor → 64) 158.72 ← dividend

2.48 ← quotient

$$\begin{array}{r} -128 \\ \hline 307 \\ -256 \\ \hline 512 \\ -512 \\ \hline \end{array}$$

$$\begin{array}{r} 3\,\overset{4}{\cancel{5}}\,\overset{11}{\cancel{2}}.\,\overset{9}{0}6 \\ -\,149.78 \\ \hline 202.28 \end{array}$$ ← difference

How you can show multiplication:

$7(8) = 56$

$4 \cdot 9 = 36$

$6x + 2x = 8x$

Order of operations

1) Parenthesis
2) Exponents
3) Multiplication OR Division
4) Addition OR Subtraction

$5[4 + (12 - 4) \div 2]$

$5[4 + 8 \div 2]$

$5[4 + 4]$

$5[8]$

40

Variables & Expressions

Expression: $4x + 12$

- terms are separated by ⊕ or ⊖
- there are two terms in this expression

Equations have equal signs!

$4x + 12 = 32$

$-12 \quad -12$

$\frac{4x}{4} = \frac{20}{4}$

$x = 5$ ← This is the solution!

$5q - 7 = 33$

$+7 \quad +7$

$\frac{5q}{5} = \frac{40}{5}$

$q = 8$

- this is an open sentence
- 5 is the coefficient
- q is a variable
- 7 is a constant
- 33 is a constant
- 8 is the solution