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This Class is designed to help Math 115 Students.

Math 107
MW 12:10-1:00 for 8 weeks You will be graded based on work turned in $\dot{\text { e }}$ short Quizes.

All materials are available on line "No Access code required" at

WWW. my math classes. com

Operations:
Addition: Sum, Total, more than, added to , increase, plus,...

Subtraction: Difference, less, less than, reduced by, minus,... Multiplication: product, times, of,...

Division: Divide, quotient, ratio,... Roots Er exponents: square, square root, Cube, -...

The sum of $\{6\}$ and (Some number is 20


4 times Some number increased by 2 is equal to the number.

$$
4 \sqrt{x}+2=x
$$

$$
4 x+2=x
$$

the difference of s io and Some number is equal to half the number.

$$
10-x=\frac{1}{2} x
$$

Square of Some number increased by 10 is equal to 3 times the number.

$$
x^{2}+10=3 x
$$

the quotient of Some number and
5 less the number is equal to $\frac{3}{4}$.

$$
\frac{x}{x-5}=\frac{3}{4}
$$

$A$ added to $B \rightarrow B+A$
$A$ less than $B \rightarrow B-A$
$A$ increased by $B \rightarrow A+B$
$A$ reduced by $B \rightarrow A-B$

A subtracted from $B$

$$
B-A
$$

$A$ minus

$$
B
$$

$$
A-B
$$

10 Subtracted from twice Some number $\frac{2 x}{2 x}$

$$
2 x-10
$$

Cube of Some number less 8 is equal to the number.

$$
x^{3}-8=x
$$

Ch. Basic Translation
Look for keywords
The Sum of Some number and 7.
Let $x$ be Some number
LVariable
$\rightarrow$ Addition
The difference of Some number and
equal to 5 . Let $x$ be Some numbers,
Subtraction


Translate only:
Twice Some number increased by -10.?
Let $x$ be Some number,

$$
=2 x-10 \quad\left\{\begin{array}{l}
2(x+(-10)) \\
\text { Twice the } \\
\text { Sum }
\end{array}\right.
$$

Twice the difference of Some number and 8 is equal to the number. Let $x$ be Some number, $2(x-8)=\frac{2}{x}$

3 times Some number reduced by - 5
is equal to
the number squared. Let $x$ be Some number,

| Added to <br> Subtracted from <br> move than <br> Less than <br> fewer than <br> 27 less $x^{3}$ <br> $27-x^{3}$ |
| :--- |
| 5 dolled to $x$ <br> $x+5$ |
| 8 subtracted <br> from $x^{2}$ <br> $x^{2}-8$ <br> 2 more than $x$ <br> $x+2$ |
| 27 <br> less than $x^{3}$ <br> $x^{3}-27$ |
| Reverse |

Square root of Some number
is equal
The number less 2.

$$
=
$$

Let $x$ be Some number,

$$
x-2
$$

$$
\sqrt{x}=x-2
$$

the Sum of Some number and 3, raised $t_{c}$ the Second power,
the result is 9 more than the number. Let $x$ be Some number,

$$
(x+3)^{2}=x+9
$$

The quotient -1 of Some number and $\underbrace{5}_{x}$ is equal to $\frac{1}{2}$.
Let $x$ be Some number
Division

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

The quotient of Some number and 10
is equal $t_{c}$ the quotient of 5 and the number Let $x$ be the number,

$$
x \div 10=5 \div x
$$

$$
\frac{x}{10}=\frac{5}{x}
$$

The quotient of Some number and) 3 more than the number

Place holder for is equal te $\frac{3}{4}$. operation.

$$
\frac{x}{x+3}=\frac{3}{4}
$$

Draw a rectangle, label it such than the length is 1 inch shorter than twice the width.


