

March 2, 2016
 operation result

Addition: Sum $a + b$
 $x + 3$

Subtraction: Difference $a - b$

Multiplication: Product $a \cdot b$

Division: Quotient $\frac{a}{b}$

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Example 2

Consecutive Numbers

1 2 3 4 5 6

① Let x be the first number of the list of consecutive numbers.

②

1	2	3	4	5	6
x	$x+1$	$x+2$	$x+3$	$x+4$	$x+5$

Consecutive odd numbers?

1	3	5	7
x	$x+2$	$x+4$	$x+6$

Consecutive Even numbers?

2	4	6	8
x	$x+2$	$x+4$	$x+6$

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3 Consecutive numbers

$x + (x+1) + (x+2) = -66$

$3x + 3 = -66$

$x = -23$

$x+1 = -23 + 1 = -22$

$x+2 = -23 + 2 = -21$

$-23 \quad -22 \quad -21 = -66$

23
22
21
-66

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60"

① Let x be the first piece

$x + 2x + 3x = 60$

$6x = 60$

so $x = 10"$

$2x = 20"$

$3x = 30"$

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A board is 110" long.
 Cut the board into 3 pieces.

The largest piece is 2 times the middle piece plus 8 inches.

The smallest piece is 15" less than the largest piece.

What are the pieces?

①	②	③
$(2x-15)$	x	$2x+8$

$(2x-15) + (x) + (2x+8) = 110$

$5x + 1 = 110$

$5x = 110$

$x = 22$

1st = $2x - 15 = 2(22) - 15 = 44 - 15 = 29"$

2nd = $22"$

3rd = $2x + 8 = 2(22) + 8 = 44 + 8 = 52"$

$29 + 22 + 52 = 110$

29
22
52
110

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