

Express Yourself (revisited)

1. Which of the equations below will answer the following question? Check (✓) **all** that apply.

“I think of a number, add 8 and then multiply by 3.
My answer is 66. What was my number?”

$x + 24 = 66$	$3x + 8 = 66$	$3x + 24 = 66$	$3(x + 8) = 66$
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Explain your answers.

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Find the value of x .

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2. Look at the four diagrams below:

Diagram A	Diagram B	Diagram C	Diagram D
$2x+1$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 5px;"> Find the Perimeter of the rectangle. </div> 3	$2(x+1)$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 5px;"> Find the Perimeter of the rectangle. </div> 3	$2(x+2)$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 5px; background-color: #e0e0e0;"> Find the Area of the rectangle. </div> 2	$x+3$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 5px;"> Find the Perimeter of the rectangle. </div> x+1

Check (✓) **every** diagram that represents the expression $4x + 8$:

Explain your answers.

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Express Yourself (revisited) (continued)

3. Three consecutive numbers are added together and then their sum is multiplied by three.

Some of the equations below represent the total using algebra. Check (✓) **all** that apply.

Total = $3x + 3x + 1 + 3x + 2$	Total = $3x + 3x + 3 + 3x + 6$
Total = $3x + 3(x + 1) + 3(x+2)$	Total = $x + x + 3 + x + 6$

Explain your answers.

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The total of the equation is 162. What are the three consecutive numbers? Explain your answer.

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