

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?"

$x + 24 = 66$

$3x + 8 = 66$

$3x + 24 = 66$

$3(x + 8) = 66$

Explain your answers.

Find the value of x .

2. Look at the four diagrams below:

Diagram A	Diagram B	Diagram C	Diagram D
$2x+1$	$2(x+1)$	$2(x+2)$	$x+3$
<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;"> Find the Perimeter of the rectangle. </div> }	<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;"> Find the Perimeter of the rectangle. </div> }	<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto; background-color: #e0e0e0;"> Find the Area of the rectangle. </div> }	<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;"> Find the Perimeter of the rectangle. </div> }

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

Explain your answers.

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.

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