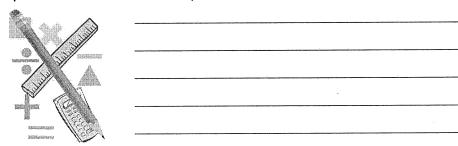






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Student Name:	Date:
Monom	ial Models
Use the tiles to help complete each of the follo	owing.
1. The expression $3(x + 2)$ could be interpreted factors of 3 and $(x + 2)$ are pictured below. showing the product of 3 and $(x + 2)$.	ed as representing 3 groups of $(x + 2)$. The two Sketch a picture to complete the drawing
	3(x + 2) = +
2. The expression $3x(x + 2)$ is represented be showing the product of $3x$ and $(x + 2)$.	elow. Sketch a picture to complete the drawing
	3x(x + 2) =+

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Explain how these two multiplication situations are alike and how they are different.

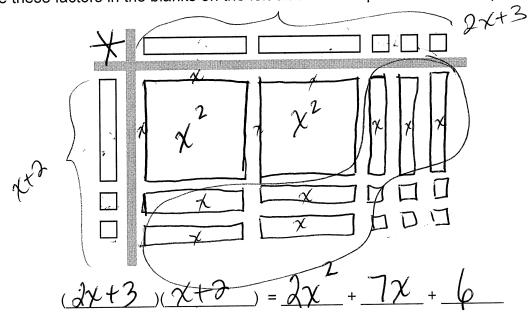




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Binomial Models

1. What two factors are being multiplied together in the picture model shown below? Write these factors in the blanks on the left side of the equation below the picture model.



- 2. Use the tiles to build and sketch a picture to complete the drawing showing the product of the two given factors.
- 3. Write each term of the product in the blanks on the right side of the equation.
- 4. How is this process different from monomial multiplication?

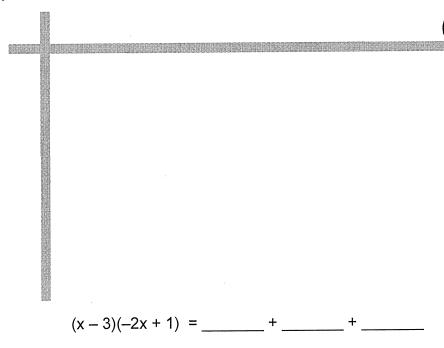
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Explain how the product would change if the rectangle on the left side of the picture model above was shaded to represent a negative value.

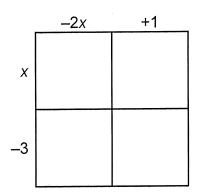


Student Name:

Binomial Multiplication Complete this under that on not book 1. Use the tiles to determine the product of (x-3)(-2x+1). Draw a picture of the model and write the product in the blanks below. (Poly Matching Act)



2. Use the box method to determine the product of (x - 3)(-2x + 1). Fill in the boxes below and write the product in the blanks.



 $(x-3)(-2x+1) = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

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Compare and contrast the two methods.

