

Name: _____

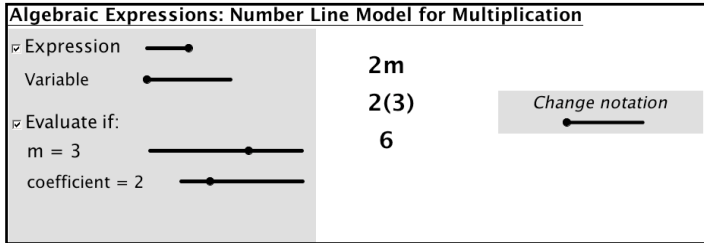
Class/Block: _____ Date: _____

Exploration: Algebraic Expressions with Number Line Model

Getting Started:

In your browser, go to the *Algebraic Expressions – Number Line Model for Multiplication* applet.

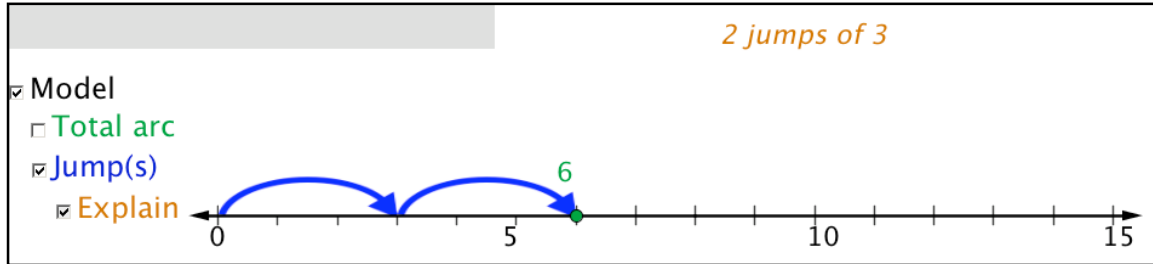
- Check the **Expression** checkbox to see the expression.
- Move the slider next to the **Expression** checkbox to see a coefficient multiplied by a variable..
- Move the **Variable** slider to change the variable name.



Part I.

Explore the *Number Line Model for Multiplication*

- Check the **Model** checkbox to see the expression represented on a number line.
- Check the **Explain** checkbox to see an explanation of the model with the value and coefficient selected.

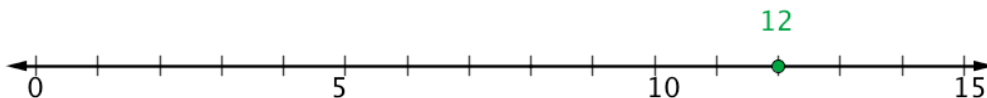


The example above represents the expression $2m$ when the variable $m = 3$ and the coefficient is 2.

Part II.

Predict what the number line model will look like with the following values for m and the coefficient:

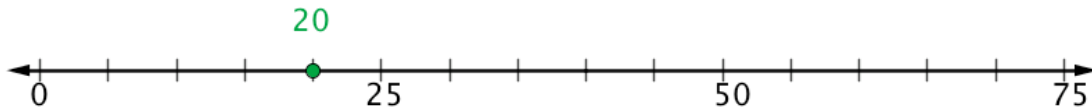
a) coefficient = 4 and $m=3$ $4(3)$



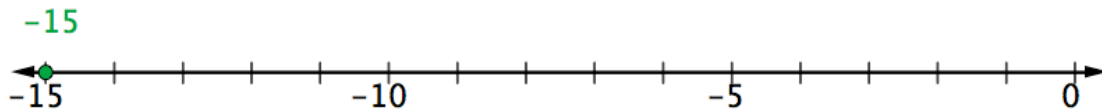
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b) coefficient = 4 and m=5 4(5)



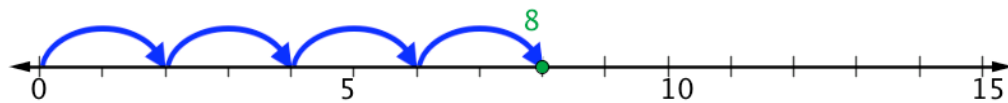
c) coefficient = 5 and m= -3 5(-3)



Part III.

Give the expression for the model provided

1. _____



2. _____

