$\qquad$ Date $\qquad$ Period $\qquad$

## Expressions

|  | Simplify. Justify by indicating the property used at each step. |  | Evaluate. |  |
| :--- | :--- | :--- | :--- | :--- |
| 1. | $-3+2(\mathrm{x}-4)-5 \mathrm{x}$ | Justification: |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## Equations



## Inequalities

|  | Solve. | Label the number line and indicate the <br> solution(s): | Is -7 a solution? Explain <br> how you know. |
| :---: | :---: | :---: | :---: |
| 10. | $-x-11>-3$ |  |  |

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|  | Solve. |  | Solve and Graph the Solution |
| :---: | :---: | :---: | :--- |
| 11. | $-2\|x+3\|-5=-19$ | 12. | $-2\|x+3\| \leq-10$ |
|  |  |  |  |

## Application

| 13. | Answer the questions completely. |
| :--- | :--- |
| Jennifer is creating a rectangular plot of grass in her backyard. She would like the length of the plot to <br> be 3 feet less than the width. Draw a picture of the situation. |  |
| Using the variable $w$ for width, express the perimeter of the plot as an inequality if he would like the <br> perimeter to be greater than 72 feet. |  |
| 14. | Dan has $\$ 400$ in his account and he wants to rent a tractor to work on his field. The upfront cost is $\$ 60$ <br> and $\$ 40$ for each day of rental. Create an equation to describe how many days he can rent the tractor. |
| Transform your equation for the number of rental days Dan into an equivalent equation. |  |
| How many days can Dan rent a tractor for his $\$ 400$ ? |  |

## Essential Question

|  | Write a Big Idea response for the Essential Question. Include vocabulary terms you have learned. Your <br> responses will be evaluated using the Big Ideas Scoring Guide. |
| :--- | :--- |
| 15 | How can we represent real world situations in multiple ways? |

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