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| **Writing and Solving Problems Involving Linear Relations** | | | |
| Represents a linear expression or equation by constructing a table of values and drawing a graph | Interprets a linear expression or equation by describing a situation it could be used to model  For the expression 2*x* + 8, I let 8 represent the entrance cost, in dollars, to a fair.  I let *x* represent the number of rides a person goes on, and 2 represent the cost, in dollars, of each ride.  The expression 2*x* + 8 is the total cost to go to the fair and go on some rides. | Solves problems related to a situation that can be modelled by  a linear expression or equation that is provided  If I know that a person spent $30 at the fair, I can write the equation 30 = 2*x*+ 8 and use it to determine how many rides they went on. 30 = 2*x*+ 8 Subtract 8 from each side.  30 – 8 = 2*x*+ 8 – 8  22 = 2*x* Divide both sides by 2.  =  11 = *x*  The person went on 11 rides. | Writes a linear expression or equation to represent a given situation and uses it to solve problems  For every 3 books participants read in the summer reading program, they get a ticket for a draw. If Nahlah gets 8 tickets, how many books did they read?  **Solution:**  I let the number of books read be *b*. To determine the number of tickets, divide the number of books by 3.  If Nahlah gets 8 tickets, I can write  the equation 8 = .  Multiply both sides by 3.  8 × 3 = × 3  24 = *b* Nahlah read 24 books. |
| **Observations/Documentation** | | | |
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