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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 modelFor 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 providedIf 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*+ 8Subtract 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 problemsFor 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 writethe equation 8 = . Multiply both sides by 3. 8 × 3 = × 3 24 = *b*Nahlah read 24 books. |
| **Observations/Documentation** |
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