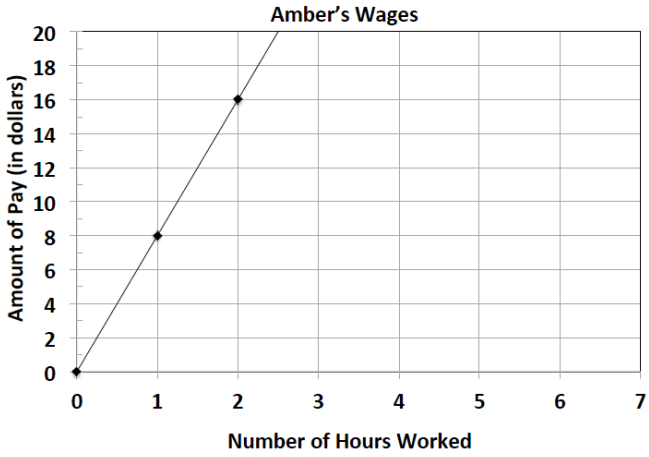
Lesson 8: Representing Proportional Relationships with Equations

Rate and Ratio Problem Set: Participant

Exit Ticket

John and Amber work at an ice cream shop. The hours worked and wages earned are given for each person.

John's Wages	
Time (in hours)	Wages (in dollars)
2	18
3	27
4	36



1. Determine if John's wages are proportional to time. If they are, determine the unit rate of $\frac{y}{x}$. If not, explain why they are not.

2. Determine if Amber's wages are proportional to time. If they are, determine the unit rate of $\frac{y}{x}$. If not, explain why they are not.

3. Write an equation for both John and Amber that models the relationship between their wage and the time they worked. Identify the constant of proportionality for each. Explain what it means in the context of the situation.

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