

NAME: \_\_\_\_\_

## UNIT 2 • REASONING WITH EQUATIONS AND INEQUALITIES

### Lesson 2: Solving Systems of Equations

#### Problem-Based Task 2.2.2: Salary Scales

Finn has recently been offered a part-time job as a salesperson at a local cell phone store. He has a choice of two different pay scales. The first option is to receive a base salary of \$300 a week plus 10% of the price of the merchandise he sells. The second option is a base salary of \$220 a week plus 18% of the price of the merchandise he sells. The average phone sells for \$200, but accessories are also included in the merchandise sales. Which of these two options should Finn choose and why?

Finn's boss has agreed to give him a third salary option. This option includes a base salary of \$160 plus 20% of the amount of merchandise he sells. Should Finn take the new offer? Why or why not?

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##### Coaching

- a. The first salary option is \$300 a week plus 10% of the price of the merchandise Finn sells. What equation represents his total salary?
  
  
  
  
  
  
  
  
  
  
- b. The second salary option is \$220 a week plus 18% of the price of the merchandise Finn sells. What equation represents his total salary?
  
  
  
  
  
  
  
  
  
  
- c. What system of equations represents the two salary options?
  
  
  
  
  
  
  
  
  
  
- d. How could you compare the salary options for various amounts of sales?
  
  
  
  
  
  
  
  
  
  
- e. Which salary option should Finn choose and why?
  
  
  
  
  
  
  
  
  
  
- f. What equation represents the third option?
  
  
  
  
  
  
  
  
  
  
- g. Is the third option more appealing than the first two options?