Phase	LESSON TASK QUESTION 2 2. How much should Custom T-Shirts charge a customer for 150 shirts? How much should they charge for 750 shirts? Explain how you determined your answers.			
	Possible Solutions	**Possible Questions**	**Misconceptions/Errors**	**Questions to Address Misconceptions/Errors**
E X P L O R E **E X P L O R E** **E X P L O R E**	Look for students who: • [illegible] e • [illegible] • Performed calculations equivalent to 8N + 15. • gave a verbal or written explanation* of their procedure. *Extending a table:* No. of Shirts / Price $ 100 / 815 110 / 895 120 / 975 130 / 1055 140 / 1135 150 / 1215 *The price for 150 shirts is $1215 because the price increases $80 for every 10 shirts.*	You might ask: • **How did you figure out how much 150 shirts would cost? 750 shirts?** • (extend the table or graph) **How do you know the price will continue to increase this way?** • (verbal explanation or calculation) **Write down your calculations for 150 shirts. 750 shirts. What was the same in both calculations? What changed?** • **Can you write down what you just did using a variable to represent the number of shirts?** • (write a variable expression) **Why did you multiply the number of shirts by 8? Why did you add 15?** • **Explain in your own words what is said by (another student).*** Assessing question	• Adding the price of 100 shirts ($815) and 50 shirts ($415) to get the price for 150 shirts ($1230). • Thinking that total price is proportional to the number of shirts: o Multiplying the price of 1 shirt ($23) by the number of shirts to find total price. o Multiplying the price of 100 shirts ($815) by 7 to find the price of 700 shirts.	• **Another student says the price of 150 shirts is $1215. How do you think she got that? Can you both be correct?** • **Another student said that since the price of one shirt is $23, the price of 150 shirts would be 23 x 150. Is that correct? Explain.** • **Do you need to pay the set-up fee for each shirt that you buy?**

© 2008 University of Pittsburgh
Funded by the James Irvine Foundation