Name		Date	Class
Additional Practice			Investigation 4
•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	Comparing and Scaling
1. Kyle has maintained a consister Middle School baseball team of batting average stays the same proportions to answer parts (a	ent batting average of during the first half of for the rest of the set (-(d)).	0.350 on the Me the season. Assu ason, write and s	tropolis Iming his olve
a. How many hits will Kyle m	ake in his next 20 tim	es at bat?	
b. How many hits will Kyle m	ake in his next 35 tim	es at bat?	
c. How many times at bat will	l it take Kyle to make	• 10 hits?	
	·		
d How many times at hat will	l it take Kyle to make	18 hits?	
G. How many times at out with	in take Kyle to make	10 mus.	
2. In a home-run derby contest a Calvin hit 4 homeruns out of h	fter the little league b is 12 hits, Suppose Ca	baseball session h	ad ended, te stavs
about the same for his next 10	0 hits. Write and solve	e proportions to	answer

- parts (a)–(d).**a.** About how many homeruns will Calvin make out of his next 48 hits?
- **b.** About how many homeruns will Calvin make out of his next 84 hits?
- **c.** About how many hits will it take for Calvin to hit 8 more homeruns?
- **d.** About how many hits will it take for him to make 36 more homeruns?

Name	Date	Class
Additional Practice (continued)		Investigation 4
3. Find the value of <i>x</i> that makes the two ratios equivaa. 4 to 7 and <i>x</i> to 63	alent.	Comparing and Scaling
b. 4 to 7 and <i>x</i> to 87.15		
c. 12 to <i>x</i> and 4 to 117		
d. 12 to <i>x</i> and 15 to 45		
e. 2 to 3 and 7 to <i>x</i>		
f. 23 to 115 and <i>x</i> to 15		
4. The Elsie Dairy uses a machine that fills 28 cartonsa. How many cartons will be filled in 6.5 hours?	of milk an hour.	
b. How long will it take to fill 343 cartons?		

- **c.** If the machine ran continuously for 10 days, how many cartons would it fill?
- **d**. Write an equation that expresses the relationship between the number of cartons *C* and the number of hours *H*.