

THE RUNNING GAME



Go to student.desmos.com, get the class password from your teacher, and do the Desmos activity called The Running Game.

<p>1. If Sam can run at a pace of 7 minutes 21 seconds (7:21) per mile on average, how long would it take him to run 4 miles at that pace?</p>	<p>2. Kim ran 3 miles in 30:04. What was her average pace per mile?</p>
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3. Amet ran 5 miles in 39 minutes. He ran each mile at a different pace, but each mile was within 1 minute of the mile before it and the mile after it.

a. Write reasonable times for each mile in the table.

Mile #	1	2	3	4	5
Time					

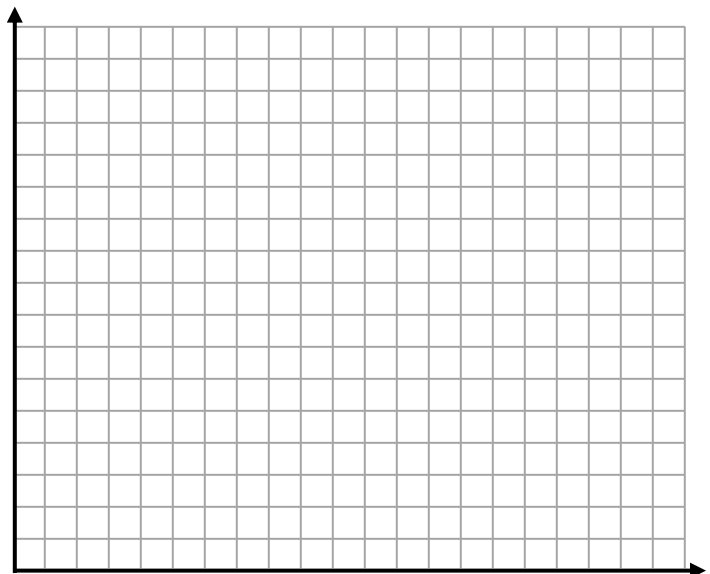
b. Make a new table to record total time at each mile.

Distance in miles	1	2	3	4	
Time in minutes					39

c. Graph the data in part b above. Label and scale your graph appropriately.

d. Write a reasonable ordered pair to fit this graph:
(6, _____)

Explain what this ordered pair means in the context of the problem.



4. Find a value that approximates this equation:

Time in minutes = _____ • distance in miles

Let t = time and d = distance, and rewrite the equation above: _____