<b>CELEBRITY RACE</b>
Accelerated 7th Grade Math

Name:
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## **The Scenario**

Ryan Seacrest, Snoop Dogg and Brittney Spears decide to have a celebrity race to raise money for charity. The race is going to be a quarter-mile long (1320 ft).

- ✓ Snoop Dogg begins at the starting line and runs at a rate of 6 feet per second.
- ✓ Ryan Seacrest gets a 1,000 foot lead and walks at 9 inches per second (he doesn't want to sweat because it could mess up his hair).
- ✓ Brittney Spears is easily confused. She gets a 1,200 foot lead, but runs back towards the starting line at a rate of 2 feet per second (but she did shave her head to reduce air resistance).

## **Your Assignment**

- 1. Write equations for each of the runners as well as the one-minute mark and the finish line.
- 2. Complete the "Calculations" section, answering all of the questions thoroughly and **showing all work**. I recommend using the substitution method to solve.
- 3. Write a story about the race that contains the events on the calculations page and information in chronological order.

## The Equations

Write equations for each of the runners, relating time t to distance from the starting line d. Also, include an equation for both the one minute mark and the finish line.

Snoop Dogg:
Ryan Seacrest:
Brittney Spears:
One Minute Mark:
Finish Line:

## **The Calculations**

nearest whole number)

seconds	Time:	
feet	Distance From Start:	
tarting line? (round	. When will the Snoop and Brittney pass each other and how far will they be from the st to the nearest whole number)	Ž
seconds	Time:	
	Distance From Start:	
seconds	Time:	
feet	Distance From Start:	
	you get the graph, do each of the following and then continue with the questions  _Label each axis with what it represents.  _Draw and label each line with the name of the runner.  _Label each point of intersection with its coordinate.	
•	. After one minute into the race, how far will each runner be? (round to the nearest who	2
_	Snoop: Ryan:	
feet	Brittnev:	

1. When will Snoop and Ryan pass each other and how far will they be from the starting line? (round to the

Look b	ack at your graph		
	_Draw and label the vertical line that represents the one minute markLabel the new points of intersection with their coordinates.		
5.	When will the Brittney cross the starting line?		
		Time:	seconds
6.	When will Snoop and Ryan cross the finish line?	Snoop:	
		Ryan:	
Look b	ack at your graph		
	_Draw and label the horizontal line that represents the finish line (1,320 f _Label the new points of intersection with their coordinates.	t).	
	<u>Story</u>		
	need to re-write the story about the Celebrity Race. Your stores and be in chronological order	y must	include the following
	_When will Snoop and Ryan pass each other? _When will the Snoop and the Brittney pass each other? _When will the Brittney and Ryan pass each other? _After one minute into the race, who is in first, second, and tl _How long does it take the Brittney to pass the starting line? _Who will win the race?	hird pla	nce?

