

4. Compare the Time model an the Distance model on the previous page. How are they are they different?	y similar? How
Similar:	
Different:	
Distance over a period of time	
I. Where does Ryan start his ride?	
2. How long does it take for Ryan to reach the blue flag if he moves slowly?	
Time to reach blue flag if Ryan moves slowly:	
B. How long does it take for Ryan to reach the blue flag if he moves quickly?	
Time to reach blue flag if Ryan moves quickly:	
Noving Away	
Explain how the shape of the graph represents Ryan's motion. In your discussion you words <i>distance</i> , <i>direction of motion</i> and <i>time</i> .	u should use the
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MFM 1PE	Mr. L. Paque
There and Back	Again
1. Explain how the following	the shape of the graph represents Ryan's motion. In your discussion you should include words: <i>steepness, direction of motion, faster, slower, stopped</i> and <i>time</i> .
Match It 1	different parts to the graphical model of Ryan's Motion. In your description you should
ise the words di	stance, steepness, direction of motion, faster, slower, stopped and time.
Part 1	
Part 2	
Part 3	
Part 4	
Part 5	
Aathematics	ry School Page

Mr. L. Paquette

	MIT. L. Fuqueile
Match It 2	
Describe the sever use the words dista	n different parts to the graphical model of Ryan's Motion. In your description you should ance, steepness, direction of motion, faster, slower, stopped and time.
Port 1	
Part 1	
Part 2	
Part 3	
Part 4	
Part 5	
Part 6	
Part 7	
Match It 3	
Describe the different the words <i>distance</i>	ent parts to the graphical model of Ryan's Motion. In your description you should use , steepness, direction of motion, faster, slower, stopped and time.
Part	Description
-	
-	
-	
-	
-	
-	
-	
-	
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Pair Challenge

Follow the instructions on the screen for this part of the sketch.

Match 1 - Revisited

Ryan's speed can be calculated using the slope of a line. The formula for slope of a line is:

$$slope = \frac{rise}{run}$$

 $= \frac{\Delta y}{\Delta x}$

Note that Ryan's speed will be *negative* when he moves towards the blue flag and *positive* when he moves away from the blue flag or toward the red flag. Calculate Ryan's speed at points 1 and 2. *Show all your calculations in the space provided.*



Match 2 - Revisited

Calculate Ryan's speed at points 1, 2 and 3. Show all your calculations in the space provided.

Ryan's speed at point 1 is:	Ryan's speed at point 2 is:	

	1
Ryan's speed at point 3 is:	

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Match 3 - Revisited

Use the coordinate grid to analyse Ryan's motion in the graph. Describe his motion for each of the following time slices. You should use actual values for speed and distance, for example Ryan is moving towards the blue flag at 3 m/s.

Time Slice	Description
0 to 8 seconds	
8 to 16 seconds	
16 to 23 seconds	
23 to 26 seconds	
26 to 32 seconds	
32 to 60 seconds	

Analyze This

Follow the instructions on the screen for this part of the sketch.

Water Works

Follow the instructions on the screen for this part of the sketch.

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Author a Motion Story

Choose a context with two variables. Determine which variable is dependent and which variable is independent. Author a motion story in the space provided below. Use the grid provided to graph your motion story. Do not forget to label your axes, choose a scale, include a title and graph your motion story.

Independent variable:		Dependent variable:	
	Му Мо	otion Story	
		+ + + + + + + + + + + + + + + + + + +	
	+ + + + + +	+ + + + + + + + + + + + + + + + + + +	+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$
			+ + -

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