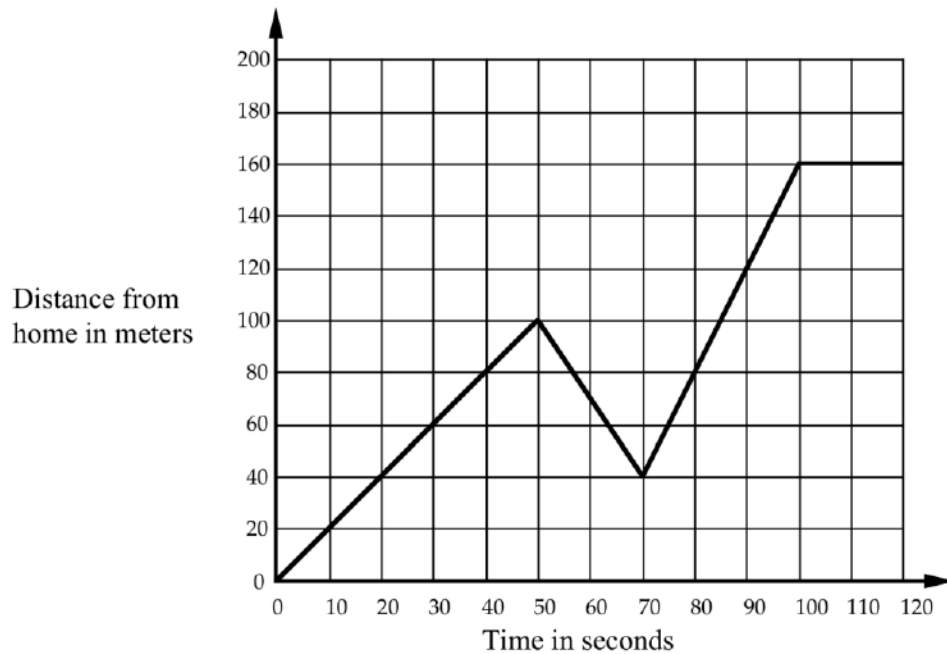


Journey to the Bus Stop

Every morning Tom walks along a straight road from his home to a bus stop, a distance of 160 meters. The graph shows his journey on one particular day.



1. Describe what may have happened.
You should include details like how fast he walked.

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2. Are all sections of the graph realistic? Fully explain your answer.

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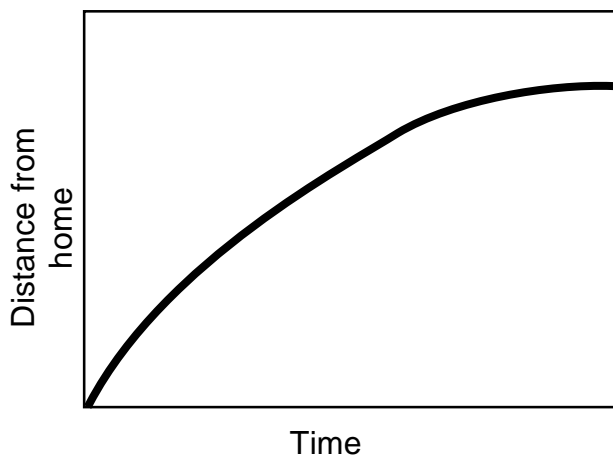
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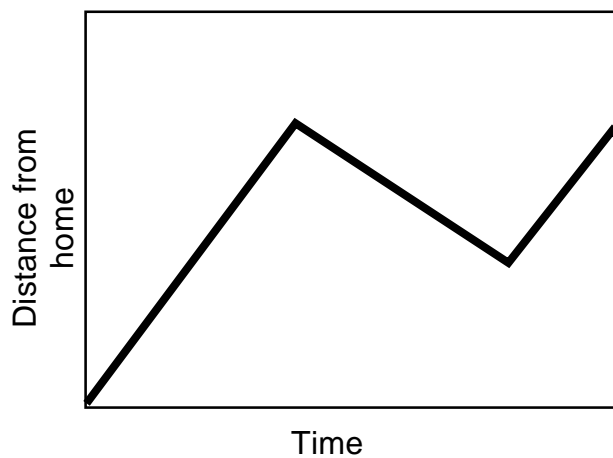
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Card Set A: Distance–Time Graphs

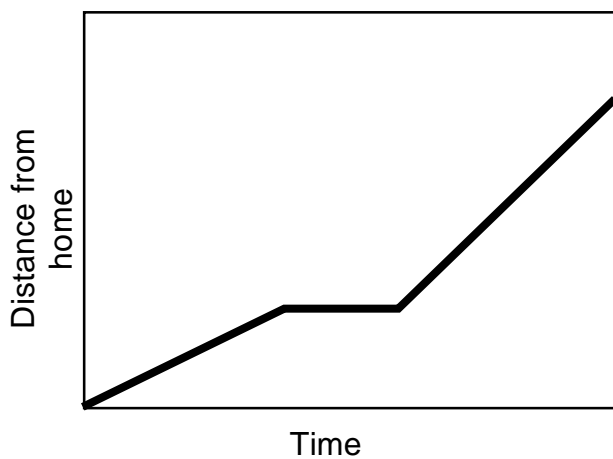
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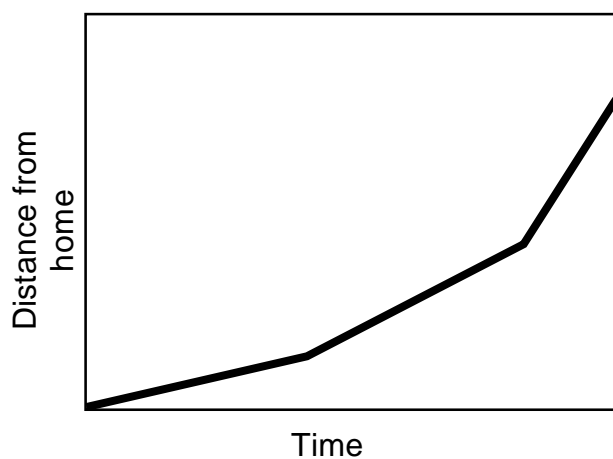
B



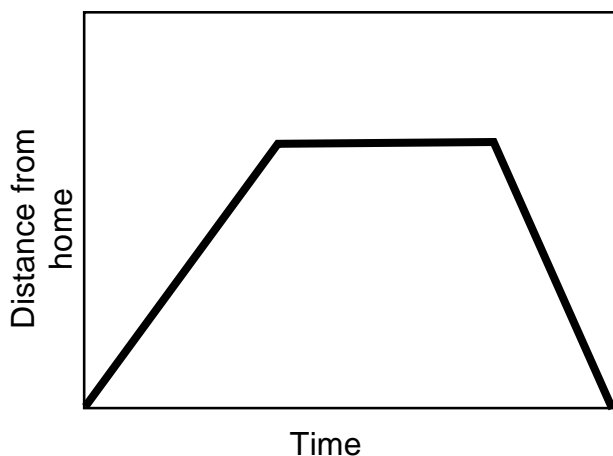
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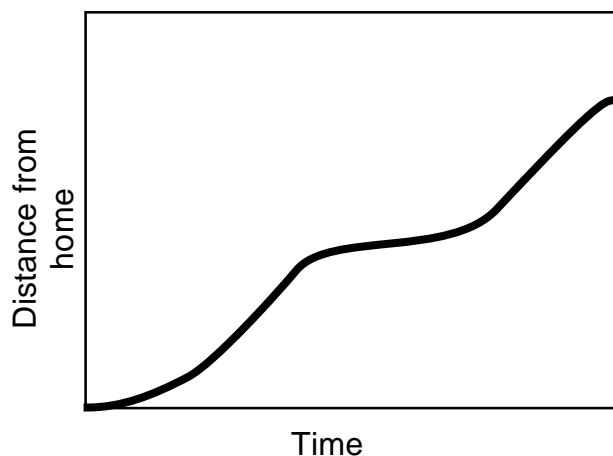
D



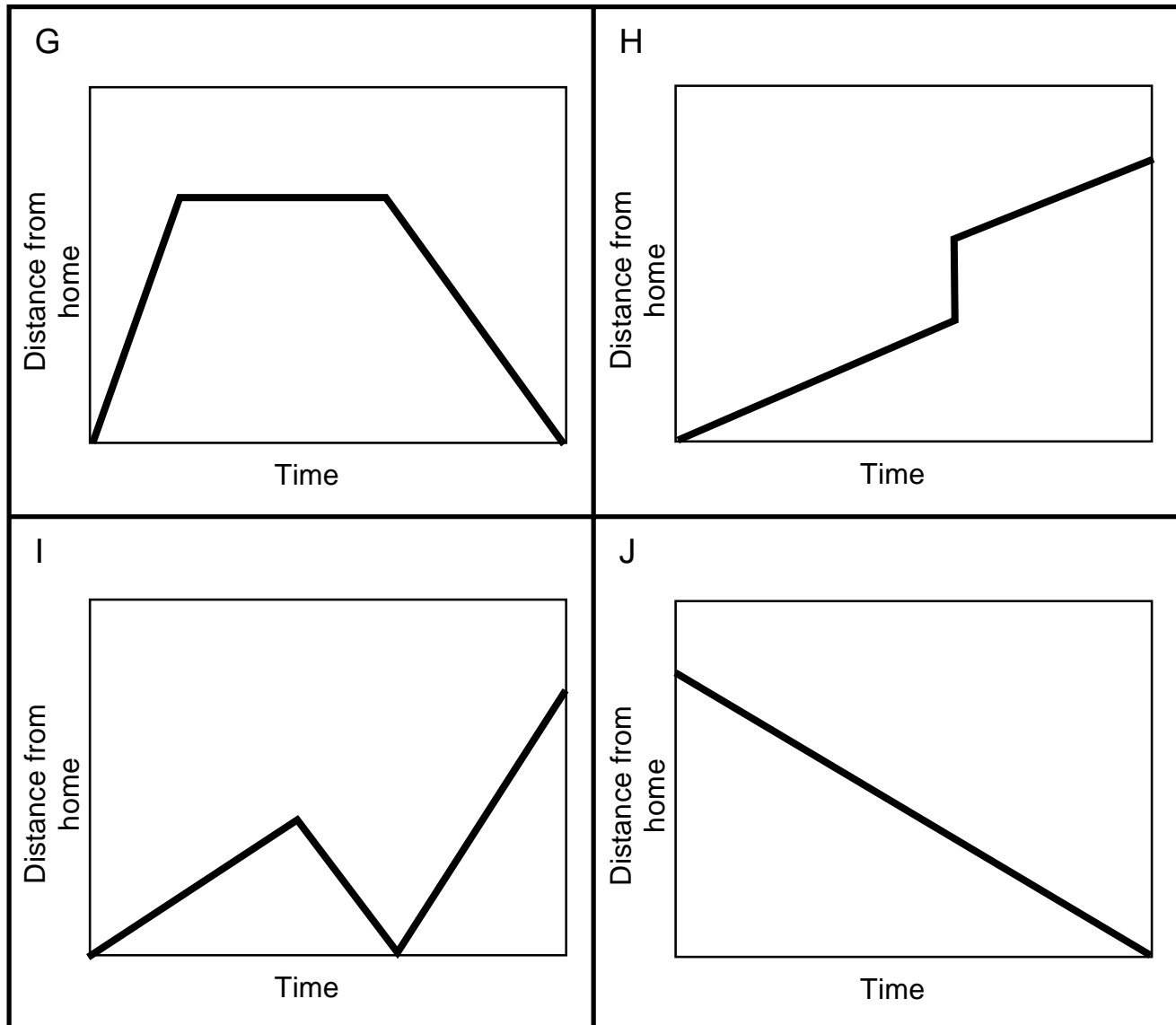
E



F



Card Set A: Distance–Time Graphs (continued)



Card Set B: Interpretations

1 Tom ran from his home to the bus stop and waited. He realized that he had missed the bus so he walked home.	2 Opposite Tom's home is a hill. Tom climbed slowly up the hill, walked across the top, and then ran quickly down the other side.
3 Tom skateboarded from his house, gradually building up speed. He slowed down to avoid some rough ground, but then speeded up again.	4 Tom walked slowly along the road, stopped to look at his watch, realized he was late, and then started running.
5 Tom left his home for a run, but he was unfit and gradually came to a stop!	6 Tom walked to the store at the end of his street, bought a newspaper, and then ran all the way back.
7 Tom went out for a walk with some friends. He suddenly realized he had left his wallet behind. He ran home to get it and then had to run to catch up with the others.	8 This graph is just plain wrong. How can Tom be in two places at once?
9 After the party, Tom walked slowly all the way home.	10 Make up your own story!

Card Set C: Tables of Data

P	Time	Distance
	0	0
	1	40
	2	40
	3	40
	4	20
	5	0

Q	Time	Distance
	0	0
	1	10
	2	20
	3	40
	4	60
	5	120

R	Time	Distance
	0	0
	1	18
	2	36
	3	54
	3	84
	5	120

S	Time	Distance
0	0	
1	40	
2	80	
3	60	
4	40	
5	80	

T	Time	Distance
	0	0
	1	20
	2	40
	3	40
	4	40
	5	0

U	Time	Distance
	0	0
	1	30
	2	60
	3	0
	4	60
	5	120

V	Time	Distance
0	0	
1	20	
2	40	
3	40	
4	80	
5	120	

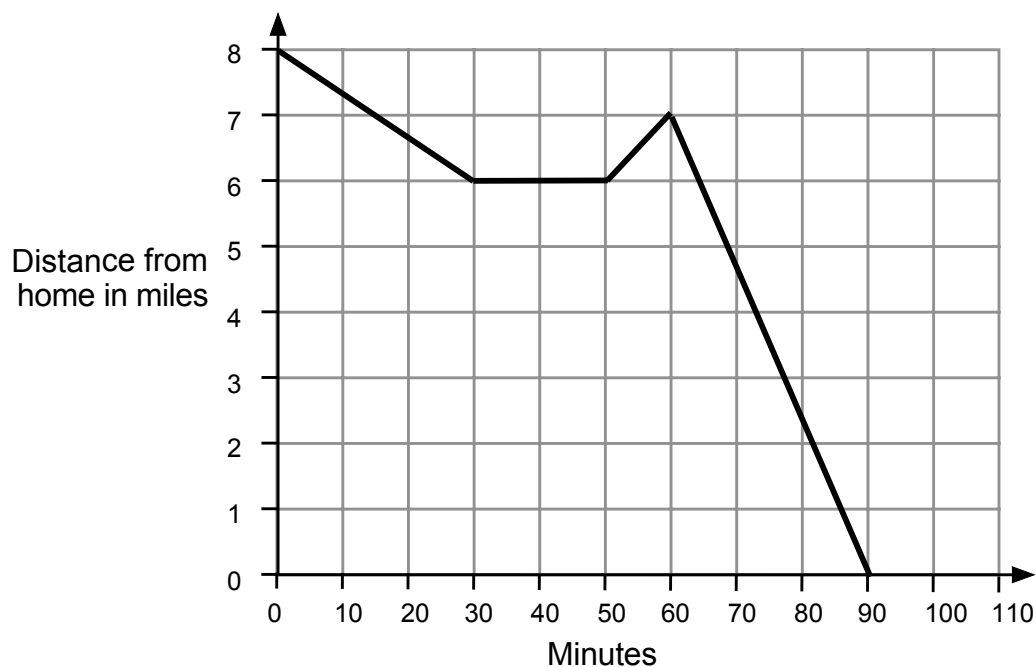
W	Time	Distance
	0	0
	1	45
	2	80
	3	105
	4	120
	5	125

X	Time	Distance
	0	120
	1	96
	2	72
	3	48
	4	24
	5	0

Y	Make this one up!	
Time	Distance	
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
Z	Make this one up!	
Time	Distance	
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Journey Home

Sylvia bikes home along a straight road from her friend's house, a distance of 8 miles. The graph shows her journey.



1. Describe what may have happened.
You should include details like how fast she bikes.

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2. Are all sections of the graph realistic? Fully explain your answer.

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