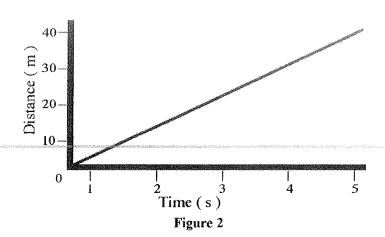
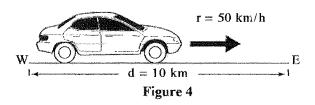
Name:	Class:	Date:	11): A
Unit	1 Physical Science Test Study Gwide		
Multiple (	Choice  the choice that best completes the statement or answers the A soccer ball takes 20 s to roll 10 m. What is the average	tions from t	his study guide for the test!
icienity in	ne enotee that best completes the signement of emovers the	question.	plus all of Chapter 2
1.	. A soccer ball takes 20 s to roll 10 m. What is the average	e speed of the soccer ball?	Answer Test
			below each question
2.			and the thirty
	1		each grown
3.	What is the term for speed at any instant in time?		·
.e. e.		en ang aran ang ang aga ag ag ag ag aran an ang aran ag ag a ag a	
4.	. Speed is the rate of change in		
		* 1	
5	. To describe velocity you need to know		
		* g*	
			to a series
0.	When you graph the motion of an object, you put (	on the norizontal axis and g	on the vertical axis.
	b)	Ania.	
7.	. Acceleration involves a change in		
	*		
8.	. The distance traveled divided by the time taken to travel	the distance is	
9.	. Motion is change in		
	1.		
10.	is rate of change of position.		
	J 1	•	
11	You have that a storm is marriage 15 looks and Mark.	whom sives the	
11.	You hear that a storm is moving 15 km/h north. You have	c occu given the storm's _	*



12. Figure 2 summarizes the motion of an object. Write a Sentance +6. describe the motion of the object.

13. A jet plane traveled for 5 hours at 600 kilometers per hour. Write the jequation should be used to find the distance the jet plane traveled?

14. Your mother picks you up at school. It takes 10 minutes for the 5-km drive home. What can you calculate a value for with the information given?



15. Figure 4 summarizes the motion of a car. What is the velocity of the car?

16. Figure 4 summarizes the motion of a car. If the car's speed is an average speed, what is the least amount of time the car will need to cover the distance given?

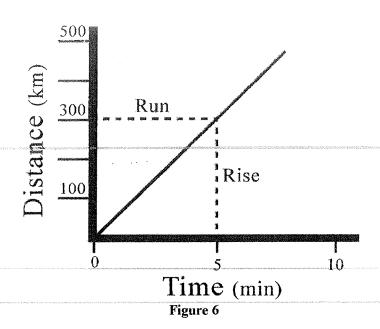


Figure 6 is a graph that summarizes the motion of a person who walked at a constant speed for 10 minutes. What is the slope of the graph?

18. List the important parts of giving a set of directions:

19. Which of the following measurements would not be used to solve for average speed?

a) total distance c) total time b) Instantaneousspeed d) starting Location

## Completion

Complete each statement.

- 20. The speed you read from your speedometer is your \_\_\_\_\_.
- 21. A distance-time graph shows a horizontal line. This means that the velocity is
- 22. Three ways to accelerate an object are to \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, or
- is the change in velocity divided by the change in time. 23.
- 24. Speeding up, slowing down, and going around curves are examples of ...

25. The average speed of a cat that runs 1 kilometer in 2 minutes is \_\_\_\_\_

m/s

Short Answer

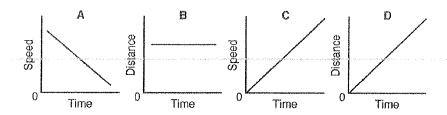


Figure 5-1

- 26. Which one of the graphs in Figure 5-1 represents a car moving at a constant speed?
- 27. Which one of the graphs in Figure 5-1 represents a car whose speed is increasing?

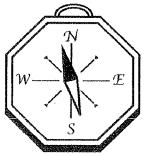


Figure 10

28. Li has chosen the instruments shown in Figure 10 for a lab on motion. Which other instrument should Li add to the items shown? Justify your answer.

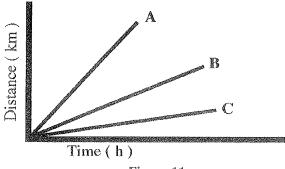


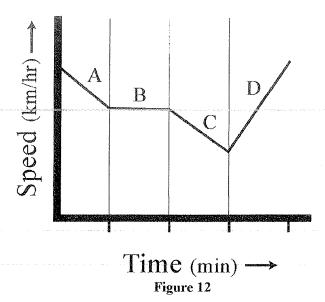
Figure 11

29. Look at Figure 11. Which line represents travel at the fastest speed? Justify your answer.

Name:		ID: A
Problem		
30.	A car goes from 80 km/h to 20 km/h in 0.5 h. What is the acceleration in km/h <sup>2</sup> ?"	
31.	A sports car traveled at an average speed of 100 km/h for 45 min. Remember, average speed = total distance/total time. What was the total distance the sports car covered during the 45-minute period?	
	True/False hether the statement is true or false. If false, change the identified word or phrase to make the staten	nent true.
32.	Motion is a change in <u>direction</u> .	
33.	If you travel through a city and find that you travel 5 km in 30 minutes, you could say that your cons is 6 km/h.	stant speed
34.	A line on a speed-time graph with a steep slope indicates <u>a greater</u> speed.	<del> </del>
35.	When you run around a track at 5 km/h, your velocity is constant.	
36.	The slope of the line on a speed-time graph tells the speed.	
37.	The speed you read on your speedometer is the <u>constant</u> speed.	
38.	When you ride your bike around a corner at 10 m/s, you are accelerating.	

39. To determine if an object has changed position, you need to know it's position relative to another object.

Essay



- 40. Figure 12 shows how the motion of an object changed. Discuss the nature of the motion in each of the four segments of the graph line.
- 41. Figure 12 summarizes the motion of an object. Discuss the overall motion of the object, and then predict what kind of object could have produced the graph.

FROW	CHAPTER 2
1) GIV	e an example of a contact force.
2)1f.	the net force is zero, what else is always true
3) Des	cribe Newton's 1st law of Motion.
Ned Bal Gra Wei	rce Force anced Forces wifu ght HOM
	2. Explain If you and a friend ride bumper cars at the fair, what happens, in terms of Newton's third law, when they collide?
Hill, a division of the McGraw-Hill Companies, Inc.	3. A golf player hits a ball with his club. The ball goes up in the air, but then it begins to slow down and fall. Define the force that causes the ball to fall.
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