Name	Date	Class
Forces • Review and Reinforce		• ၂၂၈၆၁ (၂၂၈၂)
The Nature of Force		
Understanding Main Ideas Write the phrases listed below in the Venr by unbalanced and balanced forces in the	ı diagram. area of ov	Write the characteristics shared erlap.
change an object's motion do not change an object's motion net force = 0	have di	-
Unbalanced Forces Forces Forces	Leni over Ell st	inspects. 200 lun - 200 lun lun lun annan lun lun lun annan lun annan lun lun lun lun lun lun lun lun lun lu
Answer the following question in the spe		acting in apposite directions
2. Describe how to combine unequ	ai forces a	ecting in opposite directions.
	and the fit of	Ancora a year and year majest in entire continuor di di di anters the mel here. Sometico di di di anters the mistis com What is vermon anters.
Match each term with its definition by u the right column on the line beside the to	oriting the erm in the	letter of the correct definition in
3. newton	a.	the SI unit for force
4. force	ъ.	sum of all forces acting on an object
5. unbalanced forces	c.	push or pull
6. balanced forces	d.	can change an object's motion
7. net force	e.	will not change an object's motion

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Motion • Math Skills

Math Skills

For the problems below, show your calculations. If you need more space, use another sheet of paper. Write the answers for the problems on the lines below.

Calculating Speed

1. Speed =
$$\frac{32 \text{ m}}{8 \text{ s}}$$
 = ______

2. A car travels 66 kilometers in 3 hours. What is its speed?

Answer: _____

3. Average Speed =
$$\frac{200 \text{ km}}{5 \text{ h}}$$
 =

4. Suppose a car travels 60 kilometers the first two hours and 15 kilometers the next hour. What is the car's average speed?

Answer:

5. Suppose you ride your bicycle into the countryside on a bike path. You travel 6 kilometers the first hour, 3 kilometers the second hour, and while the countryside of kilometers the third hour. What is your average speed for the whole ride?

a. die Strent for force

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Answer: The and the state of th

e. will not thank are righer a mornor

E. unbalanced forces following to forces

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a copie column on the line beside the term in the left actions

Name .		I	Date	Class		
Motion	1	• • • • • •				
Mot	ic	on				
-		Choice				
Write the letter of the correct answer on the line at the left.						
	1.	Speed measurements are giv	en in units of			
		 a. distance/time. c. distance/time². 	b. time²/distance.d. time/distance.			
	2.	Measurements of acceleration	n are given in units of			
		a. distance/time.c. distance/time²	b. time²/distance.d. time/distance.			
	3.	An airplane that moves 50 m	eters in one second has a s	peed of		
		a. 500 cm/s. c. 180,000 m/h.	b. 1,800 km/h.d. 5,000 m/h.			
	4.	How many centimeters are in	a kilometer?			
		a. 100 c. 1,000	b. 100,000 d. 1,000,000	-		
	5.	A car traveling at 25 m/s spec 15 seconds. The average accel	eds up to 40 m/s over a per eration of the car is	riod of		
		 a. 1 m/s². b. 15 km/s². 				
		c. 15 m/s^2 .				
	d. cannot be calculated from the information given					
(5.	A rider finishes a 120-km bicy speed of the rider is	cle trip in 3 hours. The ave	rage		
		a. 360 km/h.c. 40 km/h.	 b. 3.6 m/s. d. 4 m/s². 			
7	7.	The trunk of a certain tree is 5 by 1 cm. How thick will the tr	0 cm thick. Each year it get ee trunk be in 50 years?	s thicker		
		a. 50 cm c. 5,000 cm	b. 2,500 cm d. 100 cm			
8		It can be important to know the speed, because	ne velocity of an object, not	just its		
		a. velocity also tells acceleratib. speed is always an averagec. velocity also tells direction.				
	,	d. speed is only useful for fast	-moving objects.			

Na	ıme	Date	Class
Mo	otion • .		
	9. A runner s Given this a. velocity b. average		d finishes at 10:35 a.m. he runner's
	c. accelera d. referen	ation.	
	10. An airplar 20 minute a. 60 km/ b. 360 km c. 8 km/h d. none of	/h.	then flies 100 km in ane is
Co	mpletion	v	
	in the line to compl	ete each statement.	
		otion if it is moving relative to a	(n)
12.	To calculate the active change inacceleration occu	cceleration of an object moving in by the trs.	n a straight line, divide ime during which the
13.	The velocity of an	n object gives both its speed and	
14.		an average tance and the total time of a trip	
If th	ne or False se statement is true, a nake the statement t	write true. If it is false, change the w rue.	nderlined word or words
		_ 15. An object <u>cannot</u> be accele stant speed.	erating if it has a con-
		_ 16. The information needed f is distance, time, and dire	
		_ 17. To determine the speed of tance by <u>acceleration</u> .	f an object, divide dis-
		_ 18. An object is in motion onl reference point is <u>stationa</u>	-
		_ 19. If you know the <u>speed</u> of	