https://selldocx.com/products/test-bank-inquiry-into-physics-8e-ostdiek

False

Chapter 01: The Study of Motion

	a.	True	
	b.	False	
ANSWER:			False
POINTS:			1
QUESTION TYPE:			True / False
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
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2. Motion in a circle at o	constant speed i	s motion with	constant acceleration.
	a.	True	
	b.	False	
ANSWER:			False
POINTS:			1
QUESTION TYPE:			True / False
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
DATE MODIFIED:			6/13/2016 10:28 AM
3. Motion in a circle at o	constant speed i		constant velocity.
	a.	True	
	b.	False	
ANSWER:			False
POINTS:			1
QUESTION TYPE:			True / False
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
DATE MODIFIED:			6/13/2016 10:28 AM
4. Uniform motion is an	•	-	
	a. 1	True	
() (CHIED	b.	False	D 1
ANSWER:			False
POINTS:			1
OTTEGET ON THE			True / False
QUESTION TYPE:			
HAS VARIABLES:			False
HAS VARIABLES: DATE CREATED:			6/13/2016 10:28 AM
HAS VARIABLES:			False 6/13/2016 10:28 AM 6/13/2016 10:28 AM
HAS VARIABLES: DATE CREATED:	1		6/13/2016 10:28 AM 6/13/2016 10:28 AM
HAS VARIABLES: DATE CREATED: DATE MODIFIED:	nd <i>speed</i> have id a. b.	entical meanin True False	6/13/2016 10:28 AM 6/13/2016 10:28 AM

ANSWER:

Chapter	01:	The	Study	of	Motion
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POINTS:			1
QUESTION TYPE:			True / False
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
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6. If an object's speed is con	stant, its velocity	v must als	o be constant.
3 1	a.	True	
	b.	False	
ANSWER:			True
POINTS:			1
QUESTION TYPE:			True / False
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
DATE MODIFIED:			6/13/2016 10:28 AM
7. If an object's velocity is c	constant, its speed a. b.	l must als True False	o be constant.
ANSWER:	0.	raisc	True
POINTS:			1
QUESTION TYPE:			True / False
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
DATE MODIFIED:			6/13/2016 10:28 AM
8. The proper abbreviation f	or 'seconds' is 's	, ,	
6. The proper addreviation i	a.	True	
	b.	False	
ANSWER:			False
POINTS:			1
QUESTION TYPE:			True / False
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
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9. The proper abbreviation f	or 'grams' is 'g.'		
1 1	a.	True	

a. Trueb. False

ANSWER: True POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM

DATE MODIFIED: 6/13/2016 10:28 AM 10. The proper abbreviation for 'kilohertz' is 'kHz.' True b. False ANSWER: True **POINTS:** 1 **QUESTION TYPE:** True / False HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM 11. The metric prefix that means one thousand is milli-. h. False ANSWER: False **POINTS:** True / False **QUESTION TYPE:** HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM 12. Twenty milliseconds is 0.020 s. True a. b. False True ANSWER: **POINTS:** 1 True / False **QUESTION TYPE:** HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM 13. There are one thousand megabytes in a gigabyte. True a. b. False ANSWER: True **POINTS: QUESTION TYPE:** True / False HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM

14. The second is a metric unit of measure.

True a.

ANSWER: True POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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15. The number of cycles of a periodic process that occur per unit time is called the period.

False

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False
HAS VARIABLES: False

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16. The time for one complete cycle of a periodic process to take place is called the period.

a. Trueb. False

ANSWER: True POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM *DATE MODIFIED:* 6/13/2016 10:28 AM

17. The period of oscillation for a signal having a frequency of 60 Hz is 60 seconds.

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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 DATE MODIFIED:
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18. The maximum possible speed in nature is the speed of light.

a. True

b. False

ANSWER: True POINTS: 1

QUESTION TYPE: True / False

n
1

False HAS VARIABLES:

DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM

19. Experimenting is part of the scientific method.

b. False

ANSWER: True **POINTS:** 1

True / False **QUESTION TYPE:**

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM

20. A body at the end of a spring oscillates up and down ten times in five seconds. The period of oscillation is 2 S.

> True a. b. False

ANSWER: True **POINTS:**

True / False **OUESTION TYPE:**

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM

21. The slope of a distance vs. time graph is the acceleration.

True a. False h.

False

ANSWER: POINTS:

QUESTION TYPE: True / False

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM

22. The slope of a velocity vs. time graph is the acceleration.

True False b.

ANSWER: True *POINTS:* 1

True / False **QUESTION TYPE:**

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM 6/13/2016 10:28 AM DATE MODIFIED:

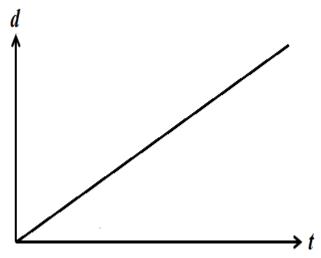
23. An object moving in a circle undergoes centripetal acceleration. b. False ANSWER: True 1 *POINTS: QUESTION TYPE:* True / False HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM 24. If an object's acceleration is positive, its speed must be increasing. True a. b. False ANSWER: False It could have a negative velocity that is getting less negative, which corresponds to a RATIONALE: decreasing speed. **POINTS:** 1 QUESTION TYP True / False E: HAS VARIABLE False S: DATE CREATE 6/13/2016 10:28 AM DATE MODIFIE 6/13/2016 10:28 AM D: 25. A fast-moving body must have a larger acceleration than a slow-moving body. a. True False b. ANSWER: False **POINTS:** 1 True / False **QUESTION TYPE:** HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM 26. An aircraft approaches a runway that runs directly east as a strong wind blows out of the south. The direction that the aircraft should aim in order to land is east of north. True a. False b. ANSWER: False **POINTS: QUESTION TYPE:** True / False

False

HAS VARIABLES:

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The figure shows a distance versus time graph for an object.



27. The velocity of the moving object is a non-zero constant.

a. Trueb. False

ANSWER: True POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

 PREFACE NAME:
 d vs. t graph (1)

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28. The acceleration of the moving object is a non-zero constant.

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False

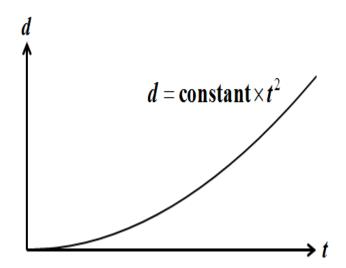
HAS VARIABLES: False

 PREFACE NAME:
 d vs. t graph (1)

 DATE CREATED:
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 DATE MODIFIED:
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The figure shows the distance versus time graph of an object.



29. The velocity of the moving object is a non-zero constant.

True

b.

False

ANSWER: POINTS:

False

QUESTION TYPE:

True / False

HAS VARIABLES:

False

PREFACE NAME:

d vs. t graph (2)

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DATE MODIFIED:

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30. The acceleration of the moving object is a non-zero constant.

True

b.

False

ANSWER:

True

POINTS:

1

QUESTION TYPE:

True / False

HAS VARIABLES:

False

PREFACE NAME:

d vs. t graph (2)

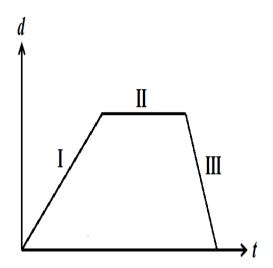
DATE CREATED:

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The figure shows a distance vs. time graph of an object with three distinct regions, I, II, and III.



31. The object's velocity is zero in region II.

a. Trueb. False

ANSWER: True POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

PREFACE NAME:d vs. t graph 3 regionsDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 1:55 PM

32. The object's velocity is positive in region II.

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

PREFACE NAME:d vs. t graph 3 regionsDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 1:55 PM

33. The object's velocity is never negative.

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

PREFACE NAME: d vs. t graph 3 regions
DATE CREATED: 6/13/2016 10:28 AM

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34. The object's acceleration is zero only in region II.

a. True

b. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False
HAS VARIABLES: False

PREFACE NAME:d vs. t graph 3 regionsDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 1:56 PM

35. The object's acceleration is negative in region III.

a. True

b. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False
HAS VARIABLES: False

PREFACE NAME:d vs. t graph 3 regionsDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 1:57 PM

36. The object is never at rest.

a. True

b. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

PREFACE NAME:d vs. t graph 3 regionsDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 1:57 PM

37. The object's speed is greatest in region I.

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

PREFACE NAME:d vs. t graph 3 regionsDATE CREATED:6/13/2016 10:28 AM

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A ball thrown upwards reaches a maximum height and then comes back down to the original level.

38. As the ball is going upwards the velocity and acceleration both point up.

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False
HAS VARIABLES: False

PREFACE NAME:ball thrown upwardsDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 4:39 PM

39. At the peak of the motion the velocity and acceleration are both zero.

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

PREFACE NAME:ball thrown upwardsDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 4:40 PM

40. As the ball is going downwards the velocity and acceleration both point down.

a. Trueb. False

ANSWER: True POINTS: 1

QUESTION TYPE: True / False
HAS VARIABLES: False

PREFACE NAME: ball thrown upwards
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41. When a body moves in circular motion at constant speed the velocity and acceleration point in opposite directions.

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False
HAS VARIABLES: False

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The acceleration of a ball as it rolls do	own a ramp is 4 m/s^2 . The hall is referred

The acceleration of a ball as it rolls down a ramp is 4 m/s². The ball is referred to 2 s after it starts to roll.

42. The distance from the starting point is 16 m.

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False
HAS VARIABLES: False

PREFACE NAME:ball rolls down a rampDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 4:43 PM

43. The velocity acquired after starting from rest is 8 m/s.

a. Trueb. False

ANSWER: True POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

PREFACE NAME:ball rolls down a rampDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 4:44 PM

44. The acceleration after starting from rest is 8 m/s².

a. Trueb. False

ANSWER: False POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

PREFACE NAME:ball rolls down a rampDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 4:45 PM

45. A racecar goes around a 200 m radius curve at a constant speed of 40 m/s. Its acceleration is 8 m/s².

a. Trueb. False

ANSWER: True POINTS: 1

QUESTION TYPE: True / False

HAS VARIAE	BLES:			False
DATE CREA	TED:			6/13/2016 10:28 AM
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46. A raceca	r driver steps on	the gas, changing	g his speed	d from 10 m/s to 30 m/s in 4 seconds. The acceleration
of the raceca	ar is 10 m/s^2 .			
		a.	True	
		b.	False	
ANSWER:				False
POINTS:				1
QUESTION :	ТҮРЕ:			True / False
HAS VARIAE	BLES:			False
DATE CREA	TED:			6/13/2016 10:28 AM
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47. A raceca	r driver steps on	the gas, and his r	acecar tra	vels 20 meters in 2 seconds starting from rest. The
acceleration	of the racecar is	5 m/s^2 .		
		a.	True	
		b.	False	
ANSWER:				False
POINTS:				1
QUESTION :	ГҮРЕ:			True / False
HAS VARIAE	BLES:			False
DATE CREA	TED:			6/13/2016 10:28 AM
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48. Which o	f these are fundar	nental physical c	uantities?	•
a. sp	ace, time, and ma	atter	b.	kilograms, seconds, and meters
c. le	ngth, time, and m	ass	d.	momentum, energy, and mass
ANSWER:				c
POINTS:				1
QUESTION :	ГҮРЕ:			Multiple Choice
HAS VARIAE	BLES:			False
DATE CREA	TED:			6/13/2016 10:28 AM
DATE MODE	FIED:			6/13/2016 10:28 AM
49. What is	the proper abbrev	riation for 'secon	ds?'	
a.	sec			
b.	There is none. It	should always b	e spelled	out.
c.	secs			
d.	S			
e.	none of the abov	re		

d

ANSWER:

POINTS:			1
QUESTION TYPE:			Multiple Choice
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
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50. What is the proper al	bbreviation for	'kilohertz?'	
	a.	kh	
	b.	khz	
	c.	Khz	
	d.	KHz	
	e.	kHz	
ANSWER:			e
POINTS:			1
<i>QUESTION TYPE:</i>			Multiple Choice
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
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51. What is the proper al	bbreviation for	· 'grams?'	
1 1	a.	g	
	b.	gms	
	c.	gm	
	d.	gr	
	e.	kg	
ANSWER:		**8	a
POINTS:			1
QUESTION TYPE:			Multiple Choice
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
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52. Which metric prefix	means one tho	ousand?	
•	a.	milli-	
	b.	centi-	
	c.	one-	
	d.	kilo-	
	e.	mega-	
ANSWER:		J	d
POINTS:			1
QUESTION TYPE:			Multiple Choice
HAS VARIABLES:			False
DATE CREATED:			6/13/2016 10:28 AM
Convright Congago Lograina E	Partiered by Company	•	

DATE MODIFIER	·	Would	7/13/2016 8:13 PM
53. Twenty milli	seconds is		
33. I wenty mini	a.	0.00002 s.	
	b.	0.0002 s.	
	c.	0.002 s.	
	d.	0.02 s.	
	e.	20000 s.	
ANSWER:			d
POINTS:			1
QUESTION TYPE	E:		Multiple Choice
HAS VARIABLES	:		False
DATE CREATED	:		6/13/2016 10:28 AM
DATE MODIFIER	D:		7/13/2016 8:13 PM
54. Fifteen micro	oseconds is		
	a.	0.0000015 s.	
	b.	0.000015 s.	
	c.	0.00015 s.	
	d.	0.015 s.	
	e.	15000000 s.	
ANSWER:			b
POINTS:			1
QUESTION TYPE	E:		Multiple Choice
HAS VARIABLES	:		False
DATE CREATED	:		6/13/2016 10:28 AM
DATE MODIFIEI	D:		7/13/2016 8:17 PM
55. Twenty kilor	neters is		
	a.	200,000 m.	
	b.	20,000 m.	
	c.	2,000 m.	
	d.	200 m.	
	e.	0.02 m.	
ANSWER:			b
POINTS:			1
QUESTION TYPE			Multiple Choice
HAS VARIABLES			False
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56. Two microcuries is

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a. 200,000 Ci.

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Chapter 01: The	Study of	Motion				
	b. (0.0002 Ci.				
		0.00002 Ci.				
		0.000002 Ci.				
		0.000002 Ci.				
ANSWER:	· ·	0.00000002 C1.		d		
POINTS:				1		
QUESTION TYPE:				Multiple Choice		
HAS VARIABLES:				False		
DATE CREATED:				6/13/2016 10:28 AM		
DATE MODIFIED.				7/13/2016 8:18 PM		
BIII MODII IBB.				,, 13, 2010 0.10 1 H		
		re there in a gigabyt		1000		
a. 10			b.	1000		
	000000		d.	none of the above		
ANSWER:				b		
POINTS:				1		
QUESTION TYPE:				Multiple Choice		
HAS VARIABLES:				False		
DATE CREATED:				6/13/2016 10:28 AM		
DATE MODIFIED.	•			6/13/2016 10:28 AM		
58. In expressions	like Δv ar	nd Δt , Δ stands for				
	like Δv and a like Δv are in".	nd Δt , Δ stands for			b.	"triangle".
a. "char	nge in".	and Δt , Δ stands for roportionality.			b. d.	"triangle". a variable.
a. "char	nge in".			a		_
a. "char c. a con	nge in".			a 1		_
a. "char c. a con ANSWER:	nge in".					_
a. "char c. a con ANSWER: POINTS:	nge in".			1		_
a. "char c. a con ANSWER: POINTS: QUESTION TYPE:	nge in".			1 Multiple Choice		_
a. "char c. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES:	nge in". stant of pr			1 Multiple Choice False		_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED.	nge in". stant of pr	oportionality.	that oc	1 Multiple Choice False 6/13/2016 10:28 AM 7/13/2016 8:19 PM	d.	_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED.	nge in". stant of pr	oportionality.	that oc	1 Multiple Choice False 6/13/2016 10:28 AM	d.	_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED.	nge in". stant of pr	roportionality. Ta periodic process amplitude.	that oc	1 Multiple Choice False 6/13/2016 10:28 AM 7/13/2016 8:19 PM	d.	_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED.	nge in". stant of pr f cycles of a.	a periodic process amplitude.	that oc	1 Multiple Choice False 6/13/2016 10:28 AM 7/13/2016 8:19 PM	d.	_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED.	nge in". stant of pr f cycles of a. b.	a periodic process amplitude. frequency. period.	that oc	1 Multiple Choice False 6/13/2016 10:28 AM 7/13/2016 8:19 PM	d.	_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED.	rige in". stant of pr f cycles of a. b. c. d.	a periodic process amplitude. frequency. period. wavelength.	that oc	1 Multiple Choice False 6/13/2016 10:28 AM 7/13/2016 8:19 PM	d.	_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED. 59. The number of	rige in". stant of pr f cycles of a. b. c.	a periodic process amplitude. frequency. period.	that oc	Multiple Choice False 6/13/2016 10:28 AM 7/13/2016 8:19 PM cur per unit time is call	d.	_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED: 59. The number of	rige in". stant of pr f cycles of a. b. c. d.	a periodic process amplitude. frequency. period. wavelength.	that oc	1 Multiple Choice False 6/13/2016 10:28 AM 7/13/2016 8:19 PM	d.	_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED. 59. The number of	rige in". stant of pr f cycles of a. b. c. d.	a periodic process amplitude. frequency. period. wavelength.	that oc	Multiple Choice False 6/13/2016 10:28 AM 7/13/2016 8:19 PM cur per unit time is call b 1	d.	_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED: 59. The number of ANSWER: POINTS: QUESTION TYPE:	rige in". stant of pr f cycles of a. b. c. d.	a periodic process amplitude. frequency. period. wavelength.	that oc	Multiple Choice False 6/13/2016 10:28 AM 7/13/2016 8:19 PM cur per unit time is call b 1 Multiple Choice	d.	_
a. "charc. a con ANSWER: POINTS: QUESTION TYPE: HAS VARIABLES: DATE CREATED: DATE MODIFIED. 59. The number of	rige in". stant of pr f cycles of a. b. c. d.	a periodic process amplitude. frequency. period. wavelength.	that oc	Multiple Choice False 6/13/2016 10:28 AM 7/13/2016 8:19 PM cur per unit time is call b 1	d.	_

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60. The time	for one cor	mplete cycle c	f a periodic	process to take place is called
	a.	ampli	tude.	
	b.	frequ	ency.	
	c.	perio	1.	
	d.	wave	ength.	
	e.	speed		
ANSWER:		-		c
POINTS:				1
QUESTION T	YPE:			Multiple Choice
HAS VARIABI	LES:			False
DATE CREAT	ED:			6/13/2016 10:28 AM
DATE MODIF	FIED:			7/13/2016 8:21 PM
61 A hody at	the end of	f a s pring osci	lates un and	d down ten times in five seconds. The period of oscillation is
01.7 1 00dy at	a.	0.5 s.	races up and	down ten times in five seconds. The period of oscillation is
	b.	2 s.		
	c.	5 s.		
	d.	3 s. 10 s.		
		not determi	a o la l o	
ANSWER:	e.	not determi	naoie.	
POINTS:				a 1
QUESTION T	VDF .			Multiple Choice
HAS VARIABI				False
DATE CREAT				6/13/2016 10:28 AM
DATE CREAT				7/13/2016 8:21 PM
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62. What is th	-	f a signal that	•	ency of 60 Hz?
a.	60 s		b.	60 s^{-1}
c.	1/60 s	3	d.	not determinable
ANSWER:				c
POINTS:				1
QUESTION T	YPE:			Multiple Choice
HAS VARIABI	LES:			False
DATE CREAT	ED:			6/13/2016 10:28 AM
DATE MODIF	FIED:			7/14/2016 2:52 PM
63. The slope	of a distar	nce vs. time gr	aph is the	
a.	distance.	_	1	b. velocity.
c.	accelerat			d. none of the above.
ANSWER:				b
POINTS:				1
QUESTION T	YPE:			Multiple Choice

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 7/13/2016 8:22 PM

64. The slope of a velocity vs. time graph is the

a. distance. b. velocity.

c. acceleration. d. none of the above

ANSWER: c *POINTS:* 1

QUESTION TYPE: Multiple Choice

False HAS VARIABLES:

DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 7/13/2016 8:22 PM

65. An object moving in a circle undergoes

a. constant acceleration.

b. free fall.

c. centripetal acceleration.

d. linear acceleration.

frequency. e.

ANSWER: c **POINTS:**

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 7/13/2016 8:23 PM

66. Motion in a circle at constant speed is motion with

constant acceleration. both of the above

b. constant velocity. none of the above

ANSWER:

c.

RATIONALE: Both v and a are continuously changing direction and therefore not constant.

POINTS:

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

6/13/2016 10:28 AM DATE CREATED: DATE MODIFIED: 7/13/2016 8:23 PM

67. An aircraft approaches a runway that runs directly east as a strong wind blows out of the south. The direction that the aircraft should point in order to land on the runway is

north.

b. east of north.

c. east.

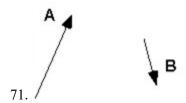
d. south of east. south. e. ANSWER: d **POINTS:** 1 Multiple Choice **QUESTION TYPE:** HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 7/13/2016 8:24 PM 68. GPS stands for the metric system of measurement. b. grams per second. Global Positioning System. c. d. a space shuttle. none of the above. e. ANSWER: c **POINTS: QUESTION TYPE:** Multiple Choice HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 7/13/2016 8:24 PM 69. Instantaneous speed and average speed are equal a. always. b. for motion at constant speed. c. for accelerated motion. d. never. ANSWER: b *POINTS:* 1 **QUESTION TYPE:** Multiple Choice HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 7/14/2016 2:53 PM 70. If the velocity of an object is negative, its speed is decreasing. b. its velocity does not exist. it is reversing direction. c. d. it is moving in the direction labeled negative. ANSWER: d **POINTS:** 1 **QUESTION TYPE:** Multiple Choice HAS VARIABLES: False

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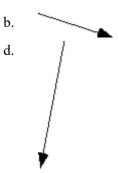
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The sum of vectors A and B is

a.

c.



ANSWER:

POINTS:

QUESTION TYPE:

HAS VARIABLES:

DATE CREATED:

DATE MODIFIED:

c 1

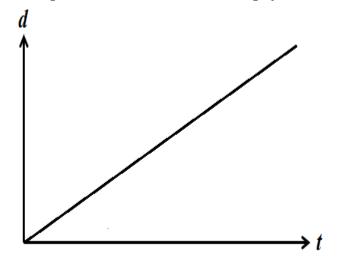
Multiple Choice

False

6/13/2016 10:28 AM

6/13/2016 10:28 AM

The figure shows a distance versus time graph for an object.



72. The velocity of the moving object is

a. zero.

b. constant.

c. increasing.

d. decreasing.

e. not determinable.

ANSWER:

b

POINTS:

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 PREFACE NAME:
 d vs. t graph (1)

 DATE CREATED:
 6/13/2016 10:28 AM

 DATE MODIFIED:
 7/29/2016 1:47 PM

73. The acceleration of the moving object is

- a. zero.
- b. constant.
- c. increasing.
- d. decreasing.
- e. not determinable.

ANSWER: a POINTS: 1

QUESTION TYPE: Multiple Choice

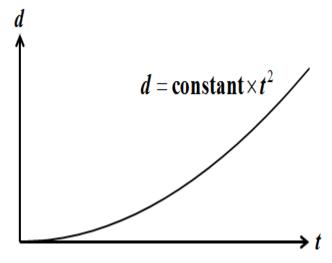
HAS VARIABLES: False

 PREFACE NAME:
 d vs. t graph (1)

 DATE CREATED:
 6/13/2016 10:28 AM

 DATE MODIFIED:
 7/29/2016 1:48 PM

The figure shows the distance versus time graph of an object.



74. The velocity of the moving object is

- a. zero.
- b. constant.
- c. increasing.
- d. decreasing.
- e. not determinable.

ANSWER: c POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 PREFACE NAME:
 d vs. t graph (2)

 DATE CREATED:
 6/13/2016 10:28 AM

 DATE MODIFIED:
 7/29/2016 1:48 PM

- 75. The acceleration of the moving object is
 - a. zero.
 - b. constant.
 - c. increasing.
 - d. decreasing.
 - e. not determinable.

ANSWER: b
POINTS: 1

QUESTION TYPE: Multiple Choice

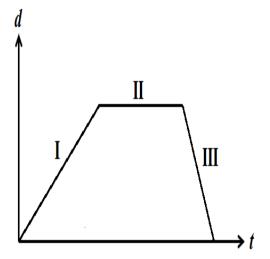
HAS VARIABLES: False

 PREFACE NAME:
 d vs. t graph (2)

 DATE CREATED:
 6/13/2016 10:28 AM

 DATE MODIFIED:
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The figure shows a distance vs. time graph of an object with three distinct regions, I, II, and III.



- 76. The object's velocity is zero in region(s)
 - a. I.
- b. II.

c. III.

d. no regions

ANSWER: b
POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME: d vs. t graph 3 regions
DATE CREATED: 6/13/2016 10:28 AM

DATE MODIFIED:			7/29/2016 1:49 PM
77. The object's velo	ocity is positive in region(s)		
a.	I.	b.	II.
c.	III.	d.	no regions
ANSWER:			a
POINTS:			1
QUESTION TYPE:			Multiple Choice
HAS VARIABLES:			False
PREFACE NAME:			d vs. t graph 3 regions
DATE CREATED:			6/13/2016 10:28 AM
DATE MODIFIED:			7/29/2016 1:50 PM
78. The object's velo	ocity is negative in region(s))	
a.	I.	b.	II.
c.	III.	d.	no regions
ANSWER:			c
POINTS:			1
QUESTION TYPE:			Multiple Choice
HAS VARIABLES:			False
PREFACE NAME:			d vs. t graph 3 regions
DATE CREATED:			6/13/2016 10:28 AM
DATE MODIFIED:			7/29/2016 1:50 PM
79. The object's acce	eleration is negative in region	on(s)	
a.	I.	b.	II.
c.	III.	d.	no regions
ANSWER:			d
POINTS:			1
QUESTION TYPE:			Multiple Choice
HAS VARIABLES:			False
PREFACE NAME:			d vs. t graph 3 regions
DATE CREATED:			6/13/2016 10:28 AM
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80. The object is at re	• , ,		
a.	I.	b.	II.
c.	III.	d.	no regions
ANSWER:			b
POINTS:			1
QUESTION TYPE:			Multiple Choice
HAS VARIABLES:			False
PREFACE NAME:			d vs. t graph 3 regions

DATE CREATED: 6/13/2016 10:28 AM *DATE MODIFIED:* 7/29/2016 1:51 PM

81. The object's speed is greatest in region(s)

a. I. b. II.

c. III. d. no regions

ANSWER: c POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME:d vs. t graph 3 regionsDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 1:51 PM

A ball thrown upwards reaches a maximum height and then comes back down to the original level.

82. As the ball is going upwards

a. the velocity and acceleration both point up.

b. the velocity points up and the acceleration down.

c. the velocity points down and the acceleration up.

d. the velocity and acceleration both point down.

e. the acceleration is zero.

ANSWER: b
POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME: ball thrown upwards
DATE CREATED: 6/13/2016 10:28 AM
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83. At the maximum height

a. the velocity and acceleration both point up.

b. the velocity points up and the acceleration down.

c. the velocity points down and the acceleration up.

d. the velocity and acceleration both point down.

e. the velocity is zero.

f. the acceleration is zero.

ANSWER: e
POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME: ball thrown upwards
DATE CREATED: 6/13/2016 10:28 AM

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- 84. As the ball is going downwards
 - a. the velocity and acceleration both point up.
 - b. the velocity points up and the acceleration down.
 - c. the velocity points down and the acceleration up.
 - d. the velocity and acceleration both point down.
 - e. the acceleration is zero.

ANSWER: d
POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME:ball thrown upwardsDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 4:47 PM

- 85. When a body moves in circular motion at constant speed
 - a. the velocity and acceleration point in the same direction.
 - b. the velocity and acceleration point in opposite directions.
 - c. the velocity and acceleration point perpendicular to each other.
 - d. the acceleration is zero.
 - e. none of the above.

ANSWER: c
POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM *DATE MODIFIED:* 7/13/2016 8:49 PM

A ball is dropped from a rooftop of a building and falls for two seconds. The acceleration of gravity is 9.8 m/s². The ball is referred to at the two-second time.

- 86. The distance the ball is below the rooftop in meters is
 - a. 0.
 - b. 4.9.
 - c. 9.8.
 - d. 19.6.
 - e. none of these.

ANSWER: d
POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME: ball dropped

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87. The velocity of the ball in m/s is

a. 0.b. 4.9.c. 9.8.d. 19.6.

e. none of these.

ANSWER: d POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME: ball dropped

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88. The acceleration of the ball in m/s² is

a. 0.b. 4.9.c. 9.8.d. 19.6.

e. none of these.

ANSWER: c POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME: ball dropped

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The acceleration of a ball as it rolls down a ramp is 4 m/s². The ball is referred to 2 s after it starts to roll.

89. The distance from the starting point in meters is

a. 0.
b. 2.
c. 4.
d. 8.
e. 16.

ANSWER: d
POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME:	ball rolls down a ramp
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90. The velocity acquired after starting from rest in m/s is

a.	0.
b.	2.
c.	4.
d.	8.
e.	16

ANSWER: d POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME:ball rolls down a rampDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 4:50 PM

91. The acceleration in m/s² after starting from rest is

a.	0.
b.	2.
c.	4.
d.	8.
e.	16

ANSWER: c POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

PREFACE NAME:ball rolls down a rampDATE CREATED:6/13/2016 10:28 AMDATE MODIFIED:7/29/2016 4:51 PM

92. A racecar goes around a 200 m radius curve at a constant speed of 40 m/s. Its acceleration is

a. 0.
b. 0.2 m/s².
c. 4 m/s².
d. 8 m/s².
e. 16 m/s².

ANSWER: d POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES:

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93. A racecar driver steps on the gas, changing his speed from 10 m/s to 30 m/s in 4 seconds. The acceleration of the racecar is

False

- a. 0
- b. 2 m/s^2 .
- c. 4 m/s^2 .
- d. 5 m/s^2 .
- e. 7.5 m/s^2 .

ANSWER: d POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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94. A racecar driver steps on the gas, and his racecar travels 20 meters in 2 seconds starting from rest. The acceleration of the racecar is

b

- a. 0
- b. 5 m/s^2 .
- c. 9.8 m/s^2 .
- d. 10 m/s^2
- e. 20 m/s^2 .

ANSWER: d
POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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- 95. The maximum possible speed in nature is
 - warp 10. b. the speed of light.
 - c. infinite. d. unknown.

ANSWER: POINTS:

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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96. Freely falling bodies experience

- a. motion with constant velocity.
- b. motion with zero acceleration.
- c. motion with constant acceleration.
- d. motion at a constant speed.
- e. none of the above

ANSWER: c
POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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97. Which of these are physical quantities?

a. time

b. energyc. secondsd. kilometers

e. volume

ANSWER: a, b, e
POINTS: 1

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM *DATE MODIFIED:* 6/13/2016 10:28 AM

98. Which of these are metric units?

a. gramsb. poundsc. secondsd. kilometerse. square miles

ANSWER: a, c, d
POINTS: 1

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

 DATE CREATED:
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 DATE MODIFIED:
 6/13/2016 10:28 AM

99. Which of these are units of measure?

a. timeb. energy

seconds c.

d. kilometers

volume e.

ANSWER: c, d 1 **POINTS:**

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM

100. Which of these are English units?

c.

POINTS:

a. seconds

kilometers d. slugs

b.

feet

ANSWER: a, b, d **POINTS:** 1

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM

101. The notation s^{-1} means the same thing as

1/s. a. b. Hz.

d. none of the above c. per second.

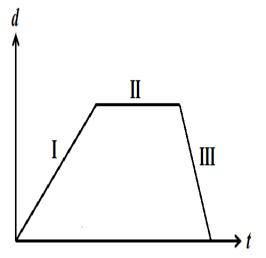
a, b, c ANSWER: 1

QUESTION TYPE: Multiple Response

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 7/13/2016 9:13 PM

The figure shows a distance vs. time graph of an object with three distinct regions, I, II, and III.



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102. The ob	ject's	accele	ration is zero in region	(s)				
	a.	_	[.	b.	II.			
	c.	.]	III.	d.	no regi	ons		
ANSWER:					a, b, c			
POINTS:					1			
QUESTION	TYPE	<i>:</i> :			Multiple Re	esponse		
HAS VARIA	BLES:	•			False			
PREFACE N	VAME	:			d vs. t graph 3 regions			
DATE CREATED:				6/13/2016 10:28 AM				
DATE MOD	IFIEL):			7/29/2016 1	1:52 PM		
103. Which	of the	ese are	a part of the scientific	method	!?			
	a.	hypot	hesis		b.	experiment		
	c.	dogm	a		d.	observation		
ANSWER:					a, b, d			
POINTS:					1			
QUESTION					Multiple I	Response		
HAS VARIA					False	10.00		
DATE CREA					6/13/2016 10:28 AM 6/13/2016 10:28 AM			
DATE MOD	IFIEL):			6/13/2016	10:28 AM		
104. What i	s "uni	iform n	notion?"					
	a.	smoot	th motion					
	b.	motio	n with zero acceleration	n				
	c.	motio	n with constant velocity	y				
	d.	motio	n at a constant speed					
	e.	motio	n along a straight path					
ANSWER:					b, c			
POINTS:					1			
QUESTION					Multiple I	Response		
HAS VARIA					False			
DATE CREATED:			6/13/2016 10:28 AM					
DATE MOD	IFIEL):			6/13/2016	5 10:28 AM		
105. Which			•	ıstant v	elocity but	changing acceleration?		
a.			ped from a bridge					
b. a car going around a banked curve at 40 m/s								
c.	c. an aircraft being launched off of an aircraft carrier							
d.	an ai	rcraft i	n a banked turn at 100 i	m/s				
ANSWER:					b, d			
POINTS:					1			
QUESTION	TYPE	<i>:</i> :			Multiple I	Response		

Chapter 01: The Study of Motion HAS VARIABLES: False 6/13/2016 10:28 AM DATE CREATED: DATE MODIFIED: 6/15/2016 12:45 PM 106. A quantity that has only a magnitude but no direction associated with it is called a ______. ANSWER: scalar **POINTS: QUESTION TYPE:** Completion HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM 107. A quantity that has both a magnitude and direction associated with it is called a ... ANSWER: vector **POINTS:** 1 **QUESTION TYPE:** Completion HAS VARIABLES: False 6/13/2016 10:28 AM DATE CREATED: DATE MODIFIED: 6/13/2016 10:28 AM 108. The proper abbreviation for 'seconds' is ANSWER: POINTS: 1 Completion **QUESTION TYPE:** HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM 109. The notation s^{-1} means . ANSWER: per second **POINTS: QUESTION TYPE:** Completion HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM 110. The proper abbreviation for 'kilohertz' is ANSWER: kHz

Completion

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False

POINTS:

OUESTION TYPE:

HAS VARIABLES:

DATE CREATED:

DATE MODIFIED:

111. The number of cycles of a periodic proc	ess that occur per unit time is called the	
ANSWER:	frequency	
POINTS:	1	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
DATE CREATED:	6/13/2016 10:28 AM	
DATE MODIFIED:	6/13/2016 10:28 AM	
112. The time for one complete cycle of a per	riodic process to take place is called the	
ANSWER:	period	
POINTS:	1	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
DATE CREATED:	6/13/2016 10:28 AM	
DATE MODIFIED:	6/13/2016 10:28 AM	
113. In expressions like Δv and Δt , Δ stands to	for	
ANSWER:	change in	
POINTS:	1	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
DATE CREATED:	6/13/2016 10:28 AM	
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114. A body at the end of a spring oscillates u	up and down ten times in five seconds. The period of oscillation	is
ANSWER:	0.5 s	
POINTS:	1	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
DATE CREATED:	6/13/2016 10:28 AM	
DATE MODIFIED:	6/13/2016 10:28 AM	
115. The slope of a velocity vs. time graph is	the	
ANSWER:	acceleration	
POINTS:	1	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
DATE CREATED:	6/13/2016 10:28 AM	
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116. The slope of a distance vs. time graph is		
ANSWER:	velocity	
POINTS:	1	

Chapter 01: The Study of Motion	
QUESTION TYPE:	Completion
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
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117. An aircraft approaches a runway that runs directly direction that the aircraft should points in order to land	-
ANSWER:	south of east
POINTS:	1
QUESTION TYPE:	Completion
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	6/13/2016 10:28 AM
A ball thrown upwards reaches a maximum height and	then comes back down to the original level.
118. As the ball is going upwards, the velocity points	and the acceleration points .
ANSWER:	up, down
POINTS:	1
QUESTION TYPE:	Completion
HAS VARIABLES:	False
PREFACE NAME:	ball thrown upwards
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	7/29/2016 4:52 PM
119. At the peak of the motion, the velocity is	and the acceleration points
ANSWER:	zero, down
POINTS:	1
OUESTION TYPE:	Completion
HAS VARIABLES:	False
PREFACE NAME:	ball thrown upwards
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	7/29/2016 4:52 PM
120. As the ball is going downwards, the velocity points	and the acceleration points
ANSWER:	down, down
POINTS:	1
QUESTION TYPE:	Completion
HAS VARIABLES:	False
PREFACE NAME:	ball thrown upwards
DATE CREATED:	6/13/2016 10:28 AM
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121. When a body moves in circular motion at constant	speed, the velocity and acceleration point

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Chapter 01: The Study of Motion	
ANSWER:	perpendicular to each other
POINTS:	1
QUESTION TYPE:	Completion
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
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122. If an object's acceleration is nonzero, its	· ————
ANSWER:	changing
POINTS:	1
QUESTION TYPE:	Completion
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	6/13/2016 10:28 AM
A ball is dropped from a rooftop of a building. The ball is referred to at the two-second time	g and falls for two seconds. The acceleration of gravity is 9.8 m/s^2 .
123. The ball is referred to at the two-second	time. The distance below the rooftop is
ANSWER:	19.6 m
POINTS:	1
QUESTION TYPE:	Completion
HAS VARIABLES:	False
PREFACE NAME:	ball dropped
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	7/29/2016 4:53 PM
124. The ball is referred to at the two-second	time. The velocity is
ANSWER:	19.6 m/s
POINTS:	1
QUESTION TYPE:	Completion
HAS VARIABLES:	False
PREFACE NAME:	ball dropped
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	7/29/2016 4:54 PM
125. The ball is referred to at the two-second	
ANSWER:	9.8 m/s^2
POINTS:	1
QUESTION TYPE:	Completion
HAS VARIABLES:	False
PREFACE NAME:	ball dropped
DATE CREATED:	6/13/2016 10:28 AM
D ATE MODIFIED	7/20/2016 4 74 70 6

7/29/2016 4:54 PM

DATE MODIFIED:

The acceleration of a ball as it rolls down a ramp is 4 m/s². The ball is referred to 2 s after it starts to roll. 126. The distance from the starting point is _____ ANSWER: 8 m **POINTS: QUESTION TYPE:** Completion HAS VARIABLES: False PREFACE NAME: ball rolls down a ramp DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 7/29/2016 4:55 PM 127. The acceleration after starting from rest is ANSWER: **POINTS:** 1 **QUESTION TYPE:** Completion HAS VARIABLES: False PREFACE NAME: ball rolls down a ramp DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 7/29/2016 4:56 PM 128. The velocity acquired after starting from rest is ANSWER: 8 m/s*POINTS:* 1 *QUESTION TYPE:* Completion HAS VARIABLES: False PREFACE NAME: ball rolls down a ramp DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 7/29/2016 4:57 PM 129. A racecar goes around a 200 m radius curve at a constant speed of 40 m/s. Its acceleration is ANSWER: 8 m/s^2 1 *POINTS:* **QUESTION TYPE:** Completion HAS VARIABLES: False DATE CREATED: 6/13/2016 10:28 AM DATE MODIFIED: 6/13/2016 10:28 AM 130. A racecar driver steps on the gas, changing his speed from 10 m/s to 30 m/s in 4 seconds. The acceleration of the racecar is _____. ANSWER: 5 m/s^2 **POINTS:** Completion *QUESTION TYPE:* False HAS VARIABLES:

DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	6/13/2016 10:28 AM
121 A receipt driver steps on the gas, and his receipt	ecar travels 20 meters in 2 seconds starting from rest. The
acceleration of the racecar is .	ecal travers 20 meters in 2 seconds starting from rest. The
ANSWER:	10 m/s^2
POINTS:	10 111/5
QUESTION TYPE:	Completion
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	6/13/2016 10:28 AM
DATE MODIFIED.	0/13/2010 10.28 ANI
132. A glider is in a banked curve with a radius of	125 m radius curve at a constant speed of 10 m/s. Its
acceleration is	
ANSWER:	0.8 m/s^2
POINTS:	1
QUESTION TYPE:	Completion
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	6/14/2016 12:28 PM
	anging his speed from 0 m/s to 40 m/s in 7 seconds. The
acceleration of the racecar is	2
ANSWER:	5.7 m/s^2
POINTS:	1
QUESTION TYPE:	Completion
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	6/14/2016 12:28 PM
134. An aircraft undergoes a constant acceleration	of 11 m/s ² for 12 seconds. The distance traveled is
ANSWER:	792 m
POINTS:	
	1 Completion
QUESTION TYPE:	Completion
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	6/15/2016 12:45 PM
135. The Gateway Arch in St. Louis, Missouri is 6	530 feet tall. Express this distance in meters and in kilometers
ANSWER:	192 m, 0.192 km
POINTS:	1
QUESTION TYPE:	Subjective Short Answer

Chapter 01: The Study of Motion	
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	6/13/2016 10:28 AM
136. Devil's Tower National Monument is 128	0 ft high Convert this height to meters
ANSWER:	390
POINTS:	1
QUESTION TYPE:	Subjective Short Answer
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	6/13/2016 10:28 AM
137. A runner in a race takes 2.7 seconds to go(a) What is the runner's speed?(b) How far would the runner go in 8 seconds in (c) How long did it take the runner to cover the	
ANSWER:	11.1 m/s, 89 m, 3.6 s
POINTS:	1
QUESTION TYPE:	Subjective Short Answer
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	7/12/2016 12:11 PM
138. During takeoff a jet aircraft goes from 0 m	n/s to 60 m/s in 5 seconds.
(a) What is the jet's acceleration?(b) What is the jet's speed after 22 seconds? ANSWER:	$12 \text{ m/s}^2, 264 \text{ m/s}$
POINTS:	l
QUESTION TYPE:	Subjective Short Answer
HAS VARIABLES:	False
DATE CREATED:	6/13/2016 10:28 AM
DATE MODIFIED:	6/14/2016 12:32 PM
139. The acceleration of a ball as it rolls down	a ramp is 3 m/s ² . It starts from rest.

(a) What is the ball's speed after 4 seconds?

(b) How far does the ball travel during the 4 seconds?

ANSWER: 12 m/s, 24 m

POINTS:

Subjective Short Answer **QUESTION TYPE:**

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM 6/13/2016 10:28 AM DATE MODIFIED:

140. A race car goes around a curve at 50 m/s. The radius of the curve is 400 m. What is the car's acceleration?

ANSWER: 6.25 m/s^2

POINTS:

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM *DATE MODIFIED:* 6/13/2016 10:28 AM

141. A 'cliff diver' in Mexico dives off a high cliff and falls for 2.3 seconds before hitting the water.

(a) How fast is the diver going at impact?

(b) How far below the cliff is the diver at this point?

ANSWER: 22.5 m/s, 25.9 m

POINTS:

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM *DATE MODIFIED:* 6/14/2016 12:34 PM

142. A high performance aircraft is executing a tight turn at 135 m/s. The radius of the curve is 750 m. What is the aircraft's acceleration?

ANSWER: 24.3 m/s^2

POINTS:

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

 DATE CREATED:
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 DATE MODIFIED:
 6/13/2016 10:28 AM

Match each item with the correct statement below.

a. accelerationb. Aristotlec. centripetal accelerationd. English

e. frequency f. Galileo Galilei

g. kilo h. metric
i. milli- j. period
k. scalar l. velocity

m. vector n. constant acceleration

QUESTION TYPE: Matching HAS VARIABLES: False

DATE CREATED: 6/13/2016 10:28 AM *DATE MODIFIED:* 6/15/2016 1:47 PM

143. the number of cycles of a periodic process that occur per unit time *ANSWER*:

POINTS:		1
144. the slope of a distance versus time graph equals this <i>ANSWER: POINTS:</i>		1
145. any physical quantity that has a direction associated with it <i>ANSWER: POINTS</i> :	m 1	
146. any physical quantity that does not have a direction associated with it <i>ANSWER: POINTS</i> :		k 1
147. the rate of change of velocity ANSWER: POINTS:		a 1
148. time it takes for one complete cycle of a periodic process <i>ANSWER</i> : <i>POINTS</i> :		j 1
149. any object moving in a circle undergoes this <i>ANSWER</i> : <i>POINTS</i> :		c 1
150. metric prefix that means one thousand <i>ANSWER: POINTS:</i>		g 1
151. correctly analyzed the motion of a falling body <i>ANSWER: POINTS</i> :		f 1
152. most widely used system of measure <i>ANSWER: POINTS:</i>		h 1
153. An object undergoing free fall in a vacuum experiences <i>ANSWER</i> : POINTS:		n 1