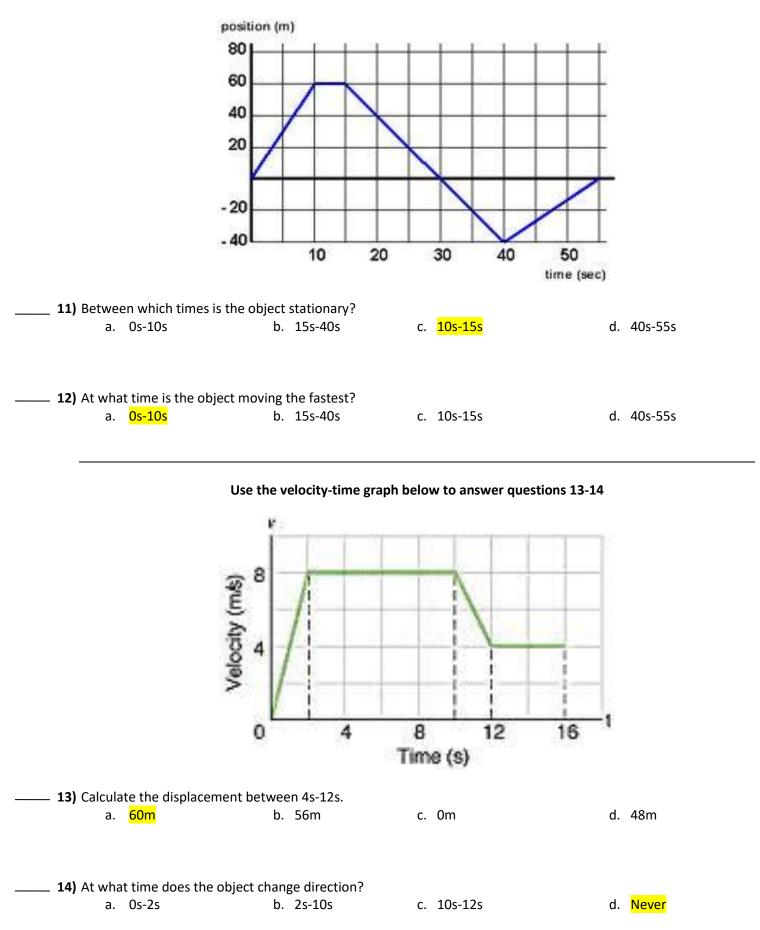
	<u>kam: Multiple Choice (A)</u>	Da	ate:	/ 4 Period:
Select t	he best answer, writing the c	apital letter in the spa	ce provided	
1)	Which of the following is a value of the following is a va		c. Mass	d. Distance
2)	A bicycle wheel has frequend a. 3.00s	cy 876Hz. How long do b. 2630s	es it take to complete three c. 1.14x10 ⁻³ s	e rotations? d. <mark>3.42x10⁻³ s</mark>
3)	Determine the final velocity a. 1.14m/s	of a car that accelerate b. <mark>16.2m/s</mark>	es uniformly for 6.42s at 1.3 c. 7.53m/s	35m/s² from 7.53m/s. d. 8.67m/s
4)	Find the initial velocity of a b a. 28.3m/s	lock that comes to a s b. 5.32m/s	top in 3.96m decelerating a c. <mark>7.52m/s</mark>	nt 7.14m/s². d. 56.5m/s
5)	How long does it take an egg a. <mark>2.21s</mark>	; being dropped out a v b. 9.80s	window to fall 24.0m? c. 21.7s	d. 2.45s
— 6)	When an object is thrown up a. <mark>-9.80m/s²</mark>	owards from the surface b. 9.80m/s ²	ce of the Earth, it experienc c. 6.67x10 ⁻¹¹ m/s ²	es an acceleration of d. 0m/s ²
7)	A boat accelerates from rest a. <mark>276m</mark>	to 64.0km/h in 31.0s. b. 158m	What distance is covered? c. 17.8m	d. 0.573m
8)	A truck drives horizontally of a. 7.63m	f a 285m high cliff at 7 b. <mark>55.7m</mark>	7.30m/s. How far from the k c. 39.0m	base of the cliff does it land? d. 39.4m
9)	A projectile is launched at 15 a. 110.m	5.0m/s directed 60.0° a b. 8.49m	above the horizontal from a c. 127m	243m hill. What is the range? <mark>d. 63.7m</mark>
10)	What is the apparent weight a. 11.4N	of a 45.2kg person in b. 622N	an elevator accelerating up c. 179N	wards at 3.96m/s²? d. 443N



15) What is the maximum force yo coefficient of friction 0.565?	bu can pull on a 4.94kg b	lock before it starts to move on c. 85.7N	a surface that has a
a. 2.79N	b. 48.4N		d. <mark>27.4N</mark>
——— 16) A 5.19kg mass and a 7.35kg ma a. <mark>59.6N</mark>	ass are connected over a b. 21.2N	a frictionless pulley. Calculate the c. 8.77N	e tension in the string. d. 72.0N
— 17) A 432g block is hung on a sprir	ng with constant 15.0N/r	n. How much does it stretch fro	m the rest position?
a. 34.7cm	b. 63.5cm	c. 3.54cm	d. <mark>28.2cm</mark>
— 18) A 3450kg object is placed on a	19.0° ramp with friction	i coefficient 0.200. What is the a	cceleration?
a. 2.79m/s ²	b. 8.09m/s ²	c. <mark>1.34m/s²</mark>	d. 6.18m/s²
— 19) What is the gravitational force surface? a. 2.74x10⁷ N 	between the Earth (m =	= 5.98x10 ²⁴ kg; r = 6380km) and a	2.80kg textbook at its
	b. 1.75x10 ¹¹ N	c. <mark>27.4N</mark>	d. 1.75x10 ⁸ N
20) What is the gravitational field and a statement of the statement of	strength at the surface c	of a planet with mass 6.02x10 ²³ k	g and radius 3570km?
	b. <mark>3.15N/kg</mark>	c. 4.02x10 ¹³ N/kg	d. 1.12x10 ⁷ N/kg
— 21) A 2.10x10 ³ kg car has a velocity same momentum as the car? a. 632m/s	y of 1.45m/s. How fast n	nust a 4.82kg bowling ball be thr	own so that it has the
	b. 3050m/s	c. 1.45m/s	d. 6.99m/s
22) What is the impulse of a 2.88g	hummingbird that flies	from 1.00m/s to 12.3m/s?	d. 0.234kgm/s
a. 32.5kgm/s	b. 35.4kgm/s	c. <mark>0.0325kgm/s</mark>	
— 23) A pitcher throws a 258g ball at how large is the force on the b a. 19.7N		hit backwards at 37.0km/h and t c. 4.27N	he contact time is 0.465s, d. 71.0N
 24) A 876kg car travelling northbo cars stick together, with what a. 27.0m/s 69.5° W of N c. 27.0m/s 69.5° N of W 			at 23.4m/s. If the two

25) What is the velocity of a mo a. 303m/s	oving car that is 2280kg and has 3.46x10 ⁵ b. <mark>17.4m/s</mark> c. 12.3m/s	
26) How much work is required a. 5460J	to bring a 4.20kg puck moving 51.0km/ł b. 29.8J c. <mark>421J</mark>	n to rest? d. 843J
	ned horizontally 55.0m with a 813N force the overall work done if the surface has b. 9.30x10 ³ J c. 44700J	e directed 78.0° below the horizontal (that is, s coefficient 0.0123. d. <mark>7010J</mark>
28) A 2.80m long pendulum is c a. 23.4m/s	lrawn back 55.0° from the vertical. What b. <mark>4.84m/s</mark> c. 74.9m/s	is the maximum velocity the mass reaches? d. 3.41m/s
29) A 735kg rollercoaster is mor 222m above the ground? a. 19.3m/s	ving 46.0m/s atop the highest peak of 88 b. 132m/s c. <mark>123m/s</mark>	88m. How fast does it move on the next hill d. 16.0m/s
— 30) A 648g mass falls a distance air resistance? a. 15.4%	e of 5.19m. If it lands with a speed of 7.37 b. <mark>46.6%</mark> c. 33.0%	7m/s, what percent of the energy was lost to d. 17.6%
31) What is the power used in r the task? a. <mark>76.0W</mark>	noving a box across a floor 4.35m with a b. 528W c. 17.5W	force of 121N if it takes 6.93s to complete d. 0.630W
— 32) A motorcycle accelerates free energy loss due to friction? a. 38900kg	om rest to 80.0km/h. If 4.32x10 ⁵ J of wor b. 135kg c. 877kg	k is applied, what is the mass assuming no d. <mark>1750kg</mark>
— 33) How much heat is required a. 288kJ	to raise 693g of oil from -25.0°C to 50.0° b. <mark>216kJ</mark> c. 144kJ	C given the specific heat is 4.15J/gK? d. 71.9kJ
— 34) If a wave completes 10.0 cy a. 33.0m/s	cles in 2.00 seconds and the wave is 3.30 b. 45.5m/s c. 11.4m/s	

- 35) A ray passes from air into an unknown substance with incident angle 43.2°. The angle of refraction is measured to be 34.5°. What is the refractive index of the material?

a. 0.0816	b. 1.25	c. 0.827	d. <mark>1.2</mark>	1
-----------	---------	----------	---------------------	---

36) Which of the following lenses and mirrors converge light?

