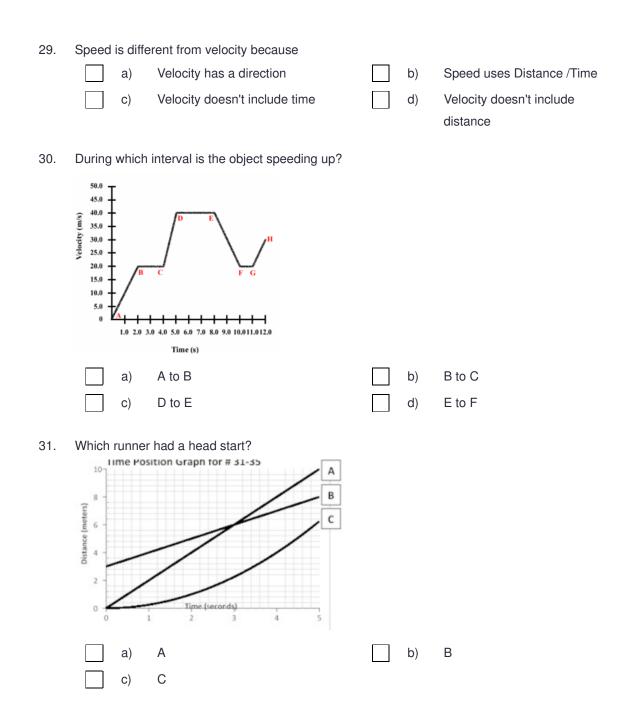
	Quizizz Physics Sem 1 Final Review					Name : Class : Date :
1.	Which	fundar	mental force holds together an atomic	nucleu:	s?	
		a)	Strong Nuclear		b)	Electromagnetic
		c)	Weak Nuclear		d)	Gravity
2.	Which	fundar	mental force is responsible for the bond	ds betv	veen m	nolecules?
		a)	Strong Nuclear		b)	Electromagnetic
		C)	Weak Nuclear		d)	Gravity
3.	Which	fundar	mental force is responsible for the attra	action b	etwee	n all things with mass?
		a)	Strong Nuclear		b)	Electromagnetic
		C)	Weak Nuclear		d)	Gravity
4.	"For e\	very fo	rce there is an equal and opposite forc	e." Thi	s is	
		a)	Newton's 1st Law		b)	Newton's 2nd Law
		C)	Newton's 3rd Law		d)	Not one of Newton's Laws
5.	What is	s the c	ontact force perpendicular to somethin	ig restir	ng on a	a surface?
		a)	Normal		b)	Friction
		C)	Gravity		d)	Tension
6.	What is	s the fo	prce that comes from something hangi	na or b	eina p	ulled by a rope (or string, wire, etc)?
		a)	Normal		b)	Gravity
		C)	Tension		d)	Friction
7.	What i	s the fr	prce that resists motion of two surfaces	s movir	ng acro	oss each other?
		a)	Normal		b)	Gravity
		C)	Tension		d)	Friction

8.	"An object at outside force		tion stay	/s in m	otion, unless acted on by an unbalanced
	a)	Newton's 1st Law		b)	Newton's 2nd Law
	C)	Newton's 3rd Law		d)	Not one of Newton's Laws
9.	A hover-puck	k is floating on a table but not moving.	What fo	orces a	re acting on the hover-puck?
	a)	Force of Gravity - Only		b)	Force of Gravity and Force of Friction
	C)	Force of Gravity and Normal Force		d)	Force of Gravity and Force Push from the air.
10.	A box is sittir	ng at rest on the floor. If an unbalance	ed force	is appl	lied to the box, the box will
	a)	move at a constant velocity		b)	speed up
	C)	slow down		d)	not move at all
11.	What forces	are acting on an object that is in free t	fall? (igr	ore air	resistance)
	a)	only gravity		b)	gravity and normal force
	C)	gravity and friction		d)	no forces
12.		force of 285N but the car still pushes		-	to get out and help push the car up the hill. as it slides down the hill. What is the force of 285N depends on the mass of the
					car
13.	A box is sittir support the b		ne box is	s 8.2 k	g. What normal force must the counter use to
	a)	8.2 N		b)	18 N
	C)	80.4 N		d)	0.84 N
14.	What is the v	value of (n)?			
	6 60° n				
		6		b)	3
	a)	0		D)	5
	() a)	5.2		d)	6.93

15.	A base	eball pl	ayer slides into second base. The play	ver has	a mas	is of 75 kg and the coefficient of friction is (μ =
	0.48).	What	is the force of friction acting on the play	/er?		
		a)	735 N		b)	353 N
		C)	36 N		d)	156 N
16.	Unbala	anced f	forces lead to			
		a)	Constant velocity		b)	Changing velocity
		C)	Gravity		d)	No motion
17.	A skie	r is trav	veling down a hill at constant velocity. V	Vhat de	pes this	s mean about the forces?
		a)	They are unbalanced		b)	They are balanced
		C)	Need more information			
18.	If a ho	t air ba	lloon rider is moving up at constant vel	ocity, t	he tota	I force on the person is:
		a)	ир		b)	down
		c)	zero		d)	depends how heavy the person is
19.	lf a ho	t air ba	lloon rider is moving up faster and fast	er, the	total fo	rce on the person is:
		a)	up		b)	down
		c)	zero		d)	depends how heavy the person is
20.	lf a ho	t air ba	lloon rider is moving up but slowing do	wn, the	e total f	orce on the person is:
		a)	up		b)	down
		C)	zero		d)	depends how heavy the person is
21.	If a ho	t air ba	lloon rider is moving down and speedir	ng up, t	the tota	al force on the person is:
		a)	up		b)	down
		C)	zero		d)	depends how heavy the person is

22.	lf a hot air ba	alloon rider is moving down and slowin	g to a s	stop, th	e total force on the person is:
	a)	up		b)	down
	C)	zero		d)	depends how heavy the person is
23.			t is mov	ving up	and slowing to a stop. What sensation of
	weight would	this person feel?			
	a)	lighter than usual		b)	heavier than usual
	C)	usual weight		d)	weightless
24.	-	le accelerates upward at 2.0 m/s ² . Wh Idition diagram to help solve)	at force	e (push) is exerted by the air on the drone? (hint: draw
	a)	98 N		b)	20 N
	C)	118 N		d)	78
25.	_	ord Truck can go from rest to a speed one this happen? 261 N	of 30 m	/s in 8. b)	7 s. What total force must act upon the car in 5160 N
	C)	14700 N		d)	19860 N
26.	An 80 kg per gravity on the		rating u	Ipward	at a rate of 1.0 m/s ² . Calculate the force
	a)	80 N		b)	180 N
	C)	864 N		d)	784 N
27.	An 80 kg per ΣF , on the pe		rating u	Ipward	at a rate of 1.0 m/s ² . Calculate the total force,
	a)	80 N		b)	180 N
	C)	864 N		d)	784 N
28.	When you te	Il the direction and speed of an object,	you gi	ve its	
	a)	motion	\square	b)	velocity
	C)	acceleration		d)	mass

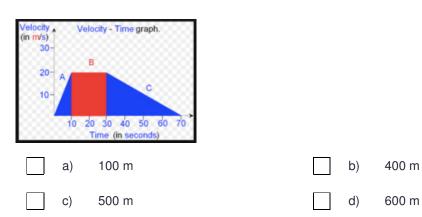


from 3rd second to 5th second, the object is

32.

	1.0 5 5 5 5 6.0 0 (3.33, 0.443)	2 Time (s) 6			
	a)	moving at a constant speed		b)	speeding up
	c)	not moving		d)	slowing down
33.	On a positior	n vs. time graph, the steeper the slop	e		
	a)	the slower the speed		b)	the faster the speed
	C)	less acceleration		d)	greater acceleration
34.	Which of the	following is a unit for acceleration?			
	a)	km/s		b)	m/s ²
	C)	mi/hr		d)	ft

35. What is the displacement for t=0s to t=30s ? (Labeled A & B)

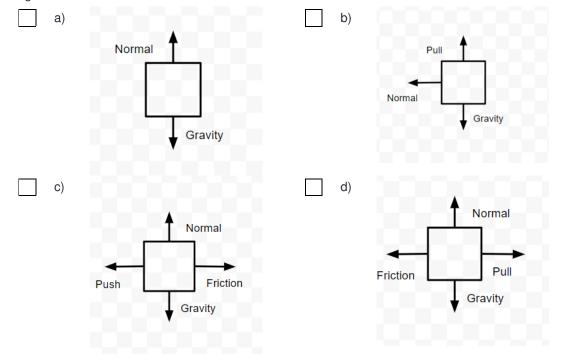


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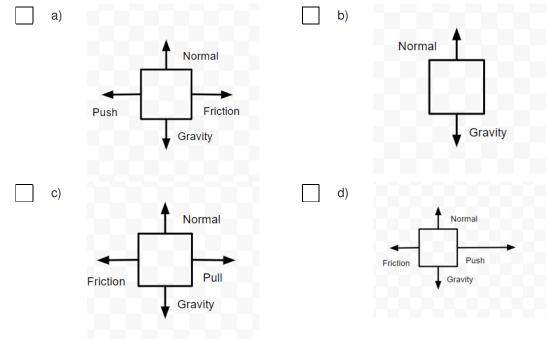
36. How far did this object move (displacement) in 4 seconds? $v_x (m/s)$ 4 2 0 t (s) Ó 2 ż 1 10 m a) 8 m b) C) 12 m d) 14 m 37. Acceleration is a) increasing speed b) decreasing speed C) changing direction d) all of the above 38. Bill runs 400 meters to Andy's house, turns around, and runs 400 meters back home. What is Bill's displacement?

a)	0 meters	b)	400 meters
c)	800 meters	d)	1600 meters

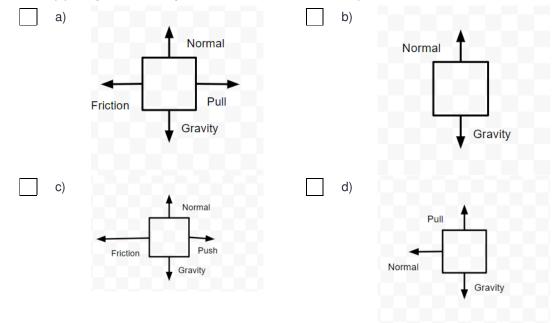
39. A leftward force is applied to a crate to push it across the floor at a constant speed. Which is the correct force diagram?

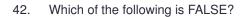


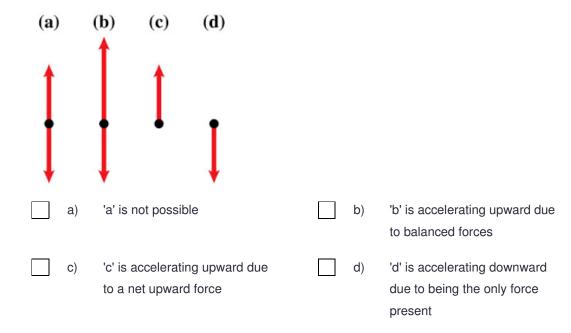
40. A rightward force is applied to a dresser to accelerate it to the right across the bedroom floor.



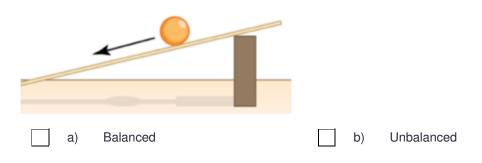
41. A hockey puck glides to the right across the ice at a constant speed.



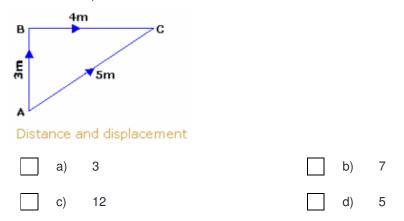




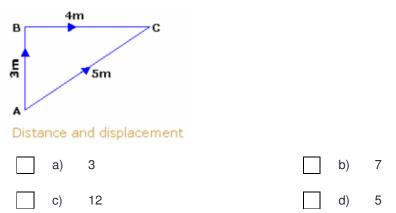
43. Are forces balanced or unbalanced when a marble speeds up rolling down a ramp?



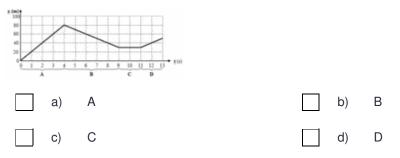
44. You follow the path: A --> B --> C. What is the distance traveled?



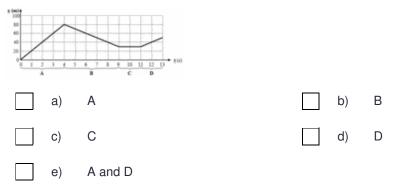
45. You follow the path: A --> B --> C. What is the displacement?



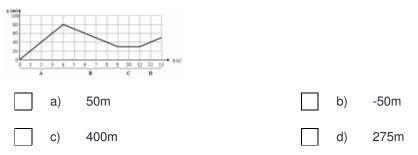
46. For this position vs time graph, where is the velocity slowest?



47. For this position vs time graph, during which time interval(s) is the object moving in a positive direction?



48. For this position vs time graph, what is the object's displacement during interval B?



49.	What is the	specific equation	n for this graph	? (hint: start wi	th y=mx+b)
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Velocity vs. Time		
1 + + + + + <u>1</u> + + + + <u>1</u> + + + <u>1</u> + + + + <u>1</u> + + + + + <u>1</u> + + + + + + + + + + + + + + + + + + +		
a) $v = a \cdot t + v_i$	b)	$v = -10 (m/s) \cdot t + 10 (m)$
c) v = -1.5 (m/s) · t + 10 (m)	d)	v = -1.5 (m/s) · t + -5 (m)

50. A wheel falls off of an airplane (oops) that is flying at an altitude of 1000m. The wheel lands 1500m horizontally away from the plane. How much time was the wheel in the air?

a)	17.8s	b)	204s
C)	14.3s	d)	102s

51. A wheel falls off of an airplane (oops) that is flying at an altitude of 1000m. The wheel lands 1500m horizontally away from the plane. How fast was the plane flying when the wheel fell off?

a)	2110m/s	b)	105 m/s
C)	46.2m/s	d)	502.3m/s

- 52. At the same time and from the same height, a cannon ball is fired horizontally at 300 m/s and an identical cannon ball is dropped. Which one hits the ground first? Ignore air resistance.
 - a) the fired cannon ball
 b) the dropped cannon ball
 c) cannot be determined
 d) they land at the same time

Answer Key

b d c e b c c b d

1.	а		43.
2.	b		44.
3.	d		45.
4.	С		46.
5.	а		47.
6.	С		48.
7.	d		49.
8.	а		50.
9.	d		51.
10.	b		52.
11.	а		
12.	b		
13.	С		
14.	b		
15.	b		
16.	b		
17.	b		
18.	С		
19.	а		
20.	b		
21.	b		
22.	а		
23.	а		
24.	С		
25.	b		
26.	d		
27.	а		
28.	b		
29.	а		
30.	а		
31.	b		
32.	С		
33.	b		
34.	b		
35.	С		
36.	С		
37.	d		
38.	а		
39.	С		
40.	d		
41.	b		
42.	b		