c)

Tension

Quizizz						Name :
Un	it 3 -	Phy	sics - Force Review			Date :
1.	Which	fundan	nental force holds together an atomic	nucleus	s?	
		a)	Strong Nuclear		b)	Electromagnetic
		c)	Weak Nuclear		d)	Gravity
2.	Which	fundan	nental force is responsible for the bond	ds betw	veen m	olecules?
		a)	Strong Nuclear		b)	Electromagnetic
		c)	Weak Nuclear		d)	Gravity
3.	Which	fundan	nental force is responsible for the attra	ction b	etweer	n all things with mass?
		a)	Strong Nuclear		b)	Electromagnetic
		c)	Weak Nuclear		d)	Gravity
4.	"For ev	ery for	ce there is an equal and opposite forc	e." This	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 co	ontact force perpendicular to somethin	g restir	ng on a	ı surface?
		a)	Normal		b)	Friction
		c)	Gravity		d)	Tension
6.	What is	s the fo	orce that comes from something hangi	ng or b	eing pu	ulled by a rope (or string, wire, etc)?
		a)	Normal		b)	Gravity
		c)	Tension		d)	Friction
7.	What is	s the fo	orce that resists motion?			
		a)	Normal		b)	Gravity

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d)

Friction

8.	what force n	olds a magnet to the side of a fridge?			
	a)	Gravity		b)	Tension
	c)	Electric		d)	Magnetism
9.	What is the obasketball?	correct symbol for the pull the Earth has	s on a	person	as they are in the air trying to dunk a
	a)	$F_{p(P,E)}$		b)	$F_{g(E,P)}$
	c)	$F_{g(P,E)}$		d)	$F_{a(E,P)}$
10.	What is the o	correct symbol for the support the Earth	n gives	to a ca	r on the road?
	a)	$F_{p(C,E)}$		b)	$F_{g(E,C)}$
	c)	$F_{n(E,C)}$		d)	$F_{a(C,E)}$
11.	What is the o	correct symbol for the ceiling pulling up	on the	outlets	s in Mr. O'Neill's room?
	a)	$F_{t(C,O)}$		b)	$F_{g(O,C)}$
	c)	$F_{n(C,O)}$		d)	$F_{a(C,O)}$
12.	What is the o	correct symbol for the a student carryin	g their	physic	s packet in the palm of their hand?
	a)	$F_{t(S,P)}$		b)	$F_{n(P,S)}$
	c)	$F_{n(S,P)}$		d)	$F_{a(S,P)}$
13.	•	•	ion sta	ys in m	otion, unless acted on by an unbalanced
	outside force	." This is Newton's 1st Law		b)	Newton's 2nd Law
	a)	Newton's 3rd Law		d)	Not one of Newton's Laws
				-,	
14.	A hover-puck	c 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		d)	Force of Gravity and Force Push from the air.
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15.	A block was	pushed and is now sliding across a fric	ctionles	s table.	. Describe its motion?
	a)	constant velocity		b)	slowing down
	c)	speeding up		d)	constant velocity and then
					slowing down
16.	A box is sittir	ng at rest on the floor. If an unbalance	d force	is appl	ied to the box, the box will
	a)	move at a constant velocity		b)	speed up
	c)	slow down		d)	not move at all
17.	What forces	are acting on an object that is in free fa	all? (igr	ore air	resistance)
	a)	only gravity		b)	gravity and normal force
	c)	gravity and friction		d)	no forces
		grante, and motion		/	
18.	Your friend tr	ries to drive up an icy hill on bald tires.	He asl	ks you	to get out and help push the car up the hill.
	You apply a	force of 285N but the car still pushes	ou bac	kward	as it slides down the hill. What is the force of
	the car on yo	ou?			
	a)	less than 285N		b)	285N
	c)	more than 285N		d)	depends on the mass of the
					car
19.			_	of war.	The seniors finally win by applying a force of
	80,000 N on	the rope. At the same time, what force	e did th	e junio	rs apply on the rope?
	a)	the rope. At the same time, what forc Less than 80,000 N	e did th	e junio b)	rs apply on the rope? 80,000 N
	a)	Less than 80,000 N	e did th	b)	80,000 N
		·	e did th	-	80,000 N Depends how many students
	a)	Less than 80,000 N	e did th	b)	80,000 N
20.	a) c)	Less than 80,000 N		b) d)	80,000 N  Depends how many students are holding the rope
20.	a) c)	Less than 80,000 N More than 80,000 N		b) d)	80,000 N  Depends how many students are holding the rope
20.	a) c) When we lar	Less than 80,000 N  More than 80,000 N  anded on the moon, the astronauts didn		b) d)	80,000 N  Depends how many students are holding the rope  ause:
20.	a) c)  When we lar a) c)	Less than 80,000 N  More than 80,000 N  anded on the moon, the astronauts didn'they wore heavy suits	t fly aw	b) d) ay beca	80,000 N  Depends how many students are holding the rope  ause: they used a safety harness we never landed on the moon
	a) c)  When we lar a) c)	Less than 80,000 N  More than 80,000 N  Inded on the moon, the astronauts didn they wore heavy suits the moon has gravity	t fly aw	b) d) ay beca	80,000 N  Depends how many students are holding the rope  ause: they used a safety harness we never landed on the moon
	a) c)  When we lar a) c)  When we we	Less than 80,000 N  More than 80,000 N  anded on the moon, the astronauts didnothey wore heavy suits the moon has gravity  ent to the Moon the astronauts looked I	t fly aw	b) d) ay beca b) d)	80,000 N  Depends how many students are holding the rope  ause: they used a safety harness we never landed on the moon  falling slower because:
	a) c)  When we lar a) c)  When we we	Less than 80,000 N  More than 80,000 N  added on the moon, the astronauts didn they wore heavy suits the moon has gravity  ent to the Moon the astronauts looked I The moon has less gravity	t fly aw	b) d) ay beca b) d)	80,000 N  Depends how many students are holding the rope  ause: they used a safety harness we never landed on the moon  falling slower because: The gravity from the Earth
	a) c)  When we lar a) c)  When we we a)	Less than 80,000 N  More than 80,000 N  Inded on the moon, the astronauts didnothey wore heavy suits the moon has gravity  Ent to the Moon the astronauts looked In the moon has less gravity than the Earth	t fly aw	b) d) ay beca b) d) were	80,000 N  Depends how many students are holding the rope  ause: they used a safety harness we never landed on the moon  falling slower because: The gravity from the Earth pulls them off the surface
	a) c)  When we lar a) c)  When we we a) c)	Less than 80,000 N  More than 80,000 N  Inded on the moon, the astronauts didnothey wore heavy suits the moon has gravity  Intent to the Moon the astronauts looked In the moon has less gravity than the Earth They had oxygen in their suits which caused them to float.	t fly aw	b) d) ay beca b) d) were 4 b) d)	80,000 N  Depends how many students are holding the rope  ause: they used a safety harness we never landed on the moon  falling slower because: The gravity from the Earth pulls them off the surface
21.	a) c)  When we lar a) c)  When we we a) c)	Less than 80,000 N  More than 80,000 N  Inded on the moon, the astronauts didnothey wore heavy suits the moon has gravity  International to the Moon the astronauts looked In the moon has less gravity than the Earth They had oxygen in their suits which caused them to float.	t fly aw	b) d) ay beca b) d) were 4 b) d)	80,000 N  Depends how many students are holding the rope  ause: they used a safety harness we never landed on the moon  falling slower because: The gravity from the Earth pulls them off the surface We never went to the moon
21.	a) c)  When we lar a) c)  When we we a) c)  A box is sittir	Less than 80,000 N  More than 80,000 N  Inded on the moon, the astronauts didnothey wore heavy suits the moon has gravity  International to the Moon the astronauts looked In the moon has less gravity than the Earth They had oxygen in their suits which caused them to float.	t fly aw	b) d) ay beca b) d) were 4 b) d)	80,000 N  Depends how many students are holding the rope  ause: they used a safety harness we never landed on the moon  falling slower because: The gravity from the Earth pulls them off the surface We never went to the moon
21.	a) c)  When we lar a) c)  When we we a) c)  A box is sittir support the b	Less than 80,000 N  More than 80,000 N  Inded on the moon, the astronauts didnothey wore heavy suits the moon has gravity  International to the Moon the astronauts looked In the moon has less gravity than the Earth They had oxygen in their suits which caused them to float.  Ing on the front counter. The mass of the pox?	t fly aw	b) d) ay beca b) d) were b) d)	80,000 N  Depends how many students are holding the rope  ause: they used a safety harness we never landed on the moon  falling slower because: The gravity from the Earth pulls them off the surface We never went to the moon  g. What normal force must the counter use to

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23.	What	is	the	value	of (	n)	?
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24. What is the value of (m)?



25. A baseball player slides into second base. The player has a mass of 75 kg and the coefficient of friction is ( $\mu$  = 0.48). What is the force of friction acting on the player?

1.40).	vvnati	s the force of inction acting on the p	player :		
	a)	735 N		b)	353 N
	c)	36 N		d)	156 N

26. An object at rest is experiencing a normal force of 60 N and a friction force of 20 N.  $[F_N=60, F_f=20]$  What is the coefficient of friction in this situation?

a)	0.33	b)	3
c)	40	d)	80

27. Unbalanced forces lead to

a)	Constant velocity	b)	Changing velocity
c)	Gravity	d)	No motion

28. A skier is traveling down a hill at constant velocity. What does this mean about the forces?

a)	They are unbalanced	b)	They are balanced
c)	Need more information		

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29.	If a constant	force is applied to a hoverpuck as it go	es dov	vn the	hallway, how would you describe its motion?
	a)	It moves at a constant velocity		b)	It slows to a stop.
	c)	It speeds up for a short time		d)	It increases velocity
		and then moves at constant			(accelerates)
		speed.			
30.					ward the earth (F <sub>g-earth,fish</sub> ). Since forces
		in pairs, what is the Newton's 3 <sup>rd</sup> Law	partne		
	a)	there is no 3 <sup>rd</sup> law partner in		b)	air resistance acting on the
		this case			fish (F <sub>F-air,fish</sub> )
	c)	the gravitational pull of the fish		d)	the tension force on the fish
		on Earth (F <sub>g-fish,earth</sub> )			(F <sub>T-person,fish</sub> )
31.	Calculate the	Force of Friction necessary to keep the	ne box	from m	noving.
	25°				
	m =	15 kg			
	a)	147N		b)	40N
	c)	56N		d)	62N
32.	Convert 750	grams to kilograms.			
	a)	750,000		b)	7.50
		0.750			75
	c)	0.750	Ш	d)	75

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## Answer Key

а

- 1.
- 2. b
- 3. d
- 4. С
- 5. а
- 6. С
- 7. d
- 8. d
- 9. b
- 10. c 11. а
- 12. c
- 13. а
- 14. d
- 15. a 16. b
- 17.
- а
- 18. b
- 19. b
- 20. c 21. a
- 22. С
- 23. b
- 24. c
- 25. b
- 26. а
- 27. b
- 28. b
- 29. d
- 30. c
- 31. d
- 32. С

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