Quizizz Non-Zero Total Force Review						Name : Class : Date :			
1.	If a hot air balloon rider is moving up at constant velocity, the total force on the person is:								
	a) up			b)	down			
	c)) zero			d)	depends how heavy the person is			
2.	2. If a hot air balloon rider is moving up faster and faster, the total force on the person is:								
	a) up			b)	down			
	c)) zero			d)	depends how heavy the person is			
3.	3. If a hot air balloon rider is moving up but slowing down, the total force on the person is:								
	a				b)	down			
	C)) zero			d)	depends how heavy the person is			
4.	4. If a hot air balloon rider is moving down and speeding up, the total force on the person is:								
	a) up			b)	down			
) zero			d)	depends how heavy the person is			
5.	lf a hot air	[,] balloon ri	der is moving down and slowir	na to a s	top th	e total force on the person is:			
0.	a				b)	down			
) zero			d)	depends how heavy the person is			
6.	6. Suppose that a cart is accelerating at a rate of 6 m/s ² . If the force is doubled , then what is the new acceleration of the sled?								
	accelerati				b)	3 m/s ²			
	c)) 2 m/s	,2		d)	12 m/s ²			

7.			a cart is accelerating at a rate of 6 m/s of the sled?	s ² . If the mass is doubled , then what is the new					
		a)	6 m/s ²		b)	3 m/s ²			
		c)	2 m/s ²		d)	12 m/s ²			
8.	•	A person is riding Power Tower at Valleyfair while it is moving up and slowing to a stop. What sensation of veight would this person feel?							
		a)	lighter than usual		b)	heavier than usual			
		c)	usual weight		d)	weightless			
9.	A person is riding Power Tower at Valleyfair while it is moving down and slowing to a stop. What sensation weight would this person feel?								
		a)	lighter than usual		b)	heavier than usual			
		c)	usual weight		d)	weightless			
10.	A 1500 kg Ford Truck can go from rest to a speed of 30 m/s in 8.7 s. What total force must act upon the car in order to make this happen?								
		a)	261 N		b)	5160 N			
		c)	14700 N		d)	19860 N			
11.		-	e accelerates upward at 2.0 m/s ² . Wha dition diagram to help solve)	t force	(push)	is exerted by the air on the drone? (hint: draw			
		a)	98 N		b)	20 N			
		c)	118 N		d)	78			
12.		0.	son is riding an elevator that is accelera	ating u	oward	at a rate of 1.0 m/s ² . Calculate the force			
	gravity	a)	80 N		b)	180 N			
		c)	864 N		d)	784 N			
13. An 80 kg person is riding an elevator that is accelerating upward at a rate of						at a rate of 1.0 m/s ² . Calculate the total force,			
	ΣF, on	a)	80 N		b)	180 N			
		c)	864 N		d)	784 N			

14. An 80 kg person is riding an elevator that is accelerating upward at a rate of 1.0 m/s². Calculate the normal force, F_N , on the person.

a)	80 N	b)	180 N
c)	864 N	d)	784 N

Answer Key

- 1. c
- 2. a
- 3. b
- 4. b
- 5. a
- 6. d
- 7. b
- 8. a
- 9. b
- 10. d
- 11. c
- 12. d
- 13. a
- 14. c