Namo	e		Class	Date	
Chapter 2 PreQuiz			Mechanical Equilibrium		
True	or F	alse	Questions	/ 33	
Circle	the cori	rect ai	ıswer. 1 pt each.		
Т	F	1.	The net force on an object is t on it.	the combination of all forces that ac	it
Т	F	2.	An object can be in equilibriu steadily at constant speed in	ım whether it is at rest or moving a straight line.	
Т	F	3.	A scalar quantity has both mavector quantity is described by	agnitude and direction, whereas a by only its direction.	
Т	F	4.	An airplane in an acrobatic lo equilibrium if the speed is co	oop-the-loop maneuver is in dynamonstant.	nic
Т	F	5.		pended from the middle of two end e tension in the rope can greatly exc	
Mul	tiple (Cho	ice Questions		
Choos	_	st ans	wer to each question and write th	he appropriate letter in the	
		6.	Suzie holds an apple at rest in applies in holding it still a. equals the weight of the a b. is slightly more than the w c. is slightly less than the w d. is zero, until she drops the	weight of the apple. eight of the apple.	she
		7.	•	N and 12 N can have a resultant of	
		8.	The number of forces that act weighing scale are a. one. b. two. c. three. d. none because they cancel	t on a bag of sugar suspended by a to zero.	
		9.	The equilibrium rule, $\sum F = 0$ a. objects or systems at rest. b. objects or systems in unifor. both (a) and (b). d. neither (a) or (b).		
		10.	The equilibrium rule, $\sum F = 0$,	, applies to	
			a. vector quantities.b. scalar quantities.c. both (a) and (b).d. neither (a) or (b).		

the tensions in the supporting ropes must equal the weights of Burl

and Paul, plus anything else on the scaffold.

Class

11. When you press a coiled spring downward, the spring

d. It can't be determined from the information given.

12. When you stand on two bathroom scales, one foot on each scale with weight evenly distributed, each scale

Mechanical Equilibrium

will read

presses upward on your hand with

a. a smaller amount of force. **b.** the same amount of force. **c.** a greater amount of force.

Date

Name

Chapter 2 PreQuiz