Scales in an Elevator

A person brings a bathroom scale into an elevator.

For each of the following situation, evaluate whether the relationship between the given forces is less than, greater than, equal to, or can't tell and explain your reasoning.

a.	The elevator is at re	est.	
	$F_{scale\ on\ man}$		Fgravity on man
	Explanation:		
b.	The elevator is moving	g downward	d at a constant speed
	$F_{\text{scale on man}}$		Fgravity on man
	Explanation:		
c.	The elevator is moving downward at an increasing speed.		
	$F_{\text{scale on man}}$		Fgravity on man
	Explanation:		

$F_{\text{scale on man}}$	Fgravity on man			
Explanation:				
e. The elevator is at rest on the 30 th floor.				
	!!			
$F_{scale\ on\ man}$	Fgravity on man			
	L			
Explanation:				

d. The elevator is moving upward at a decreasing speed.