

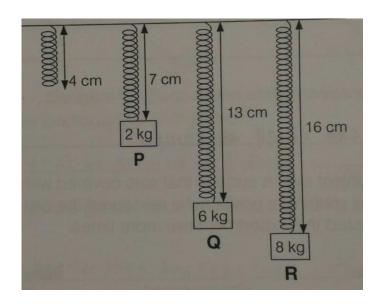
1 Academy Remedial Training (Forces)

Nan	ne:		Date:
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Leť	s revisit areas of weaknes	sses:	
1.	State one application of magnetic	force and one disadvan	tage of frictional force.[2m]
	Application of Magnetic Force:		
	• Use to separate magnetic n	naterials from	materials.
	Powerful electro-magnets in the second	used in Maglev trains to	allow the trains to float above the
	tracks, thus greatly reducin	ıg	
	Disadvantage of frictional force: • Causes wear and • Creates unnecessary h		
2.	In outer space, there is no air, so the	nere is no air	Therefore, there is no
	f force during	space travel. However,	when a space-craft re-enters
	earth's atmosphere, its speed is being slowed down by the layer of air, creating		
	, which can increas	e the temperature of the	body of the space craft to more
	than 500 deg C. This shows that f	O	motion and produces
	h		
3.	L, w forces between surfaces.	and rollers can be used	to fr

- 4. Write "T if the statement is true and "F" is the statement is false.
 - (a) A stationary object **may not move** when a force is exerted on it.
 - (b) When an object is raised above the ground, it **gain gravity**. ()
 - (c) As an object moves further away from the Earth, its weight **decreases**.
 - (d) Maglev trains float on a layer of air caused by magnetic **attraction**. ()
 - (e) Frictional force **cannot act** at a distance.
 - (f) A drag chute **increases** the speed of the moving space shuttle. ()



5. The diagram below shows the length of the same spring being extended when three different loads, P, Q and R, were being hung on it.



The extension of the spring will be _____ if a 10-kg mass is attached to it. [1m]

The total length of the spring will be ____ if a 12-kg mass is attached to it. [1m].

