Practice Question Set For GCSE

**Subject: Physics** 

Name of the Student:\_ Max. Marks : 17 Marks





**Time: 17 Minutes** 

Q <sup>,</sup>		er jumps from a plane.				
	The sky-diver is shown in the diagram below.					
		X Y				
	(a) Arr	rows <b>X</b> and <b>Y</b> show two forces acting on the sky-diver as he falls.  Name the forces <b>X</b> and <b>Y</b> .				
	X					
		Y	(2)			
	(ii) Explain why force <b>X</b> acts in an upward direction.					
			(1)			
	(iii) At first forces <b>X</b> and <b>Y</b> are unbalanced.					
	Which of the forces will be bigger?					
	(iv)	How does this unbalanced force affect the sky-diver?	(1)			

(b) After some time the sky-diver pulls the rip cord and the parachute opens.

The sky-diver and parachute are shown in the diagram below.



After a while forces **X** and **Y** are balanced.

Underline the correct answer in each line below.

Force X has

increased / stayed the same / decreased.

Force Y has

increased / stayed the same / decreased.

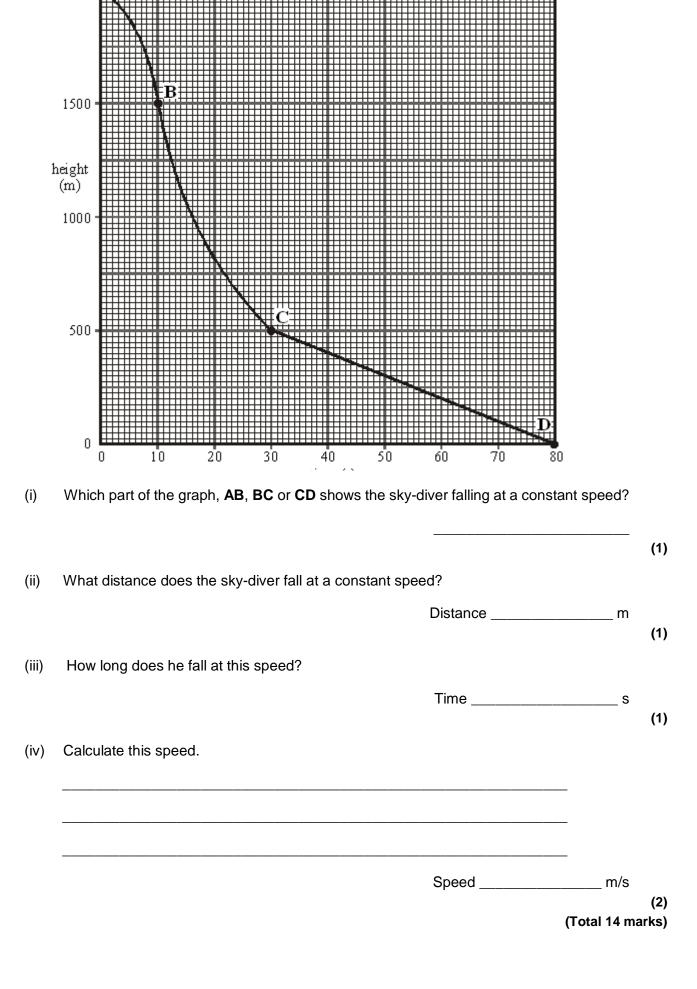
The speed of the sky-diver will

increase / stay the same / decrease.

(c) The graph below shows how the height of the sky-diver changes with time.

(3)

(2)

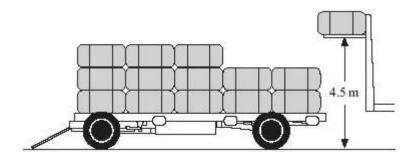


2000

## Q2.

A forklift truck was used to stack boxes on to a trailer.

It lifted a box weighing 1900 N through 4.5 m.



Calculate the work done or	n the box. Show yo	ur working.		
			Work done =	J (Total 3 marks