## Forces June 2010 Paper

1. A student investigates the extension which occurs when a load is added to a plastic spring.
The diagram shows the equipment he uses.
The load is a carrier and discs.
The pin shows the position of the bottom of the load.

(a) (i) How many discs are on the carrier?
(ii) The carrier and pin weigh 0.2 newtons and each disc weighs 0.1 newtons. Calculate the total load, in newtons, acting on the spring shown in the diagram.
$\qquad$
$\qquad$
Total load $=$
(b) (i) What reading, in centimetres, is shown by the pin?

Reading $=$
cm

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