

GCSE Physics B (Twenty First Century Science)

J259/01 Breadth in Physics (Foundation Tier)

Question Set 32

1 Kai sees this information in an advert for a plane ticket. Weight limit for bags = 20 kg Kai thinks this information is wrong. The advert does not show weight limits. It shows mass limits. The force of gravity on an object (a) Define weight. [1] (b) Kai wants to know if his bag is too heavy to take on the plane. He needs to find its weight. (i) Name a measuring instrument he could use to find its weight. [1] Newton meter Describe how he can use your answer to (b)(i) to find the weight of the bag. [1]

(c) Kai finds that the weight of his bag is 240 N.

Calculate the mass of the bag.

Gravitational field strength = 10 N/kg

Hang the object on the newton meter

Total Marks for Question Set 32: 6



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