Mass, Weight and Density – 2022 June O Level 5054

1. June/2022/Paper_11/No.4

The mass m of an object is related to its weight W and the gravitational field strength g.

Which equation shows the relationship?

A $m = W \times g$ **B** $m = \frac{W}{g}$ **C** $m = \frac{g}{W}$ **D** $m = W - g$

2. June/2022/Paper_22/No.1(a, b)

Fig. 1.1 shows a waterskier pulled horizontally across the water surface.

Fig. 1.1

The mass of the waterskier is 60 kg. The gravitational field strength g is 10 N/kg.

(a) Calculate the weight of the waterskier.

weight = ... [1]

(b) Mass and weight have different units.

State **two** other differences between mass and weight.

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..... [2]