

8 Mars has approximately 8 times the mass of the Moon.

Mars has twice the diameter of the Moon.

The value of  $g$  on the surface of the Moon is  $1.6 \text{ N kg}^{-1}$ .

What is the value of  $g$  on the surface of Mars?

☐ A  $0.8 \text{ N kg}^{-1}$

☐ B  $1.6 \text{ N kg}^{-1}$

☐ C  $3.2 \text{ N kg}^{-1}$

☐ D  $6.4 \text{ N kg}^{-1}$

(Total for Question 8 = 1 mark)