

- 9** A man weighs 240 N on Mars where the acceleration of free fall  $g$  is  $4\text{ m s}^{-2}$ . On the Moon,  $g$  is  $2\text{ m s}^{-2}$ .

Which statement is correct?

- A** The man has a mass on Mars of 60 N.
- B** The man has a mass on the Moon of 120 kg.
- C** The man weighs 120 N on the Moon.
- D** The man weighs 240 N on the Moon.

- 10** A body experiences a varying resultant force that causes its momentum to vary, as shown in the