

- 2 (a) Define force.

..... [1]

- (b) A resultant force F acts on an object of mass 2.4 kg. The variation with time t of F is shown in Fig. 2.1.

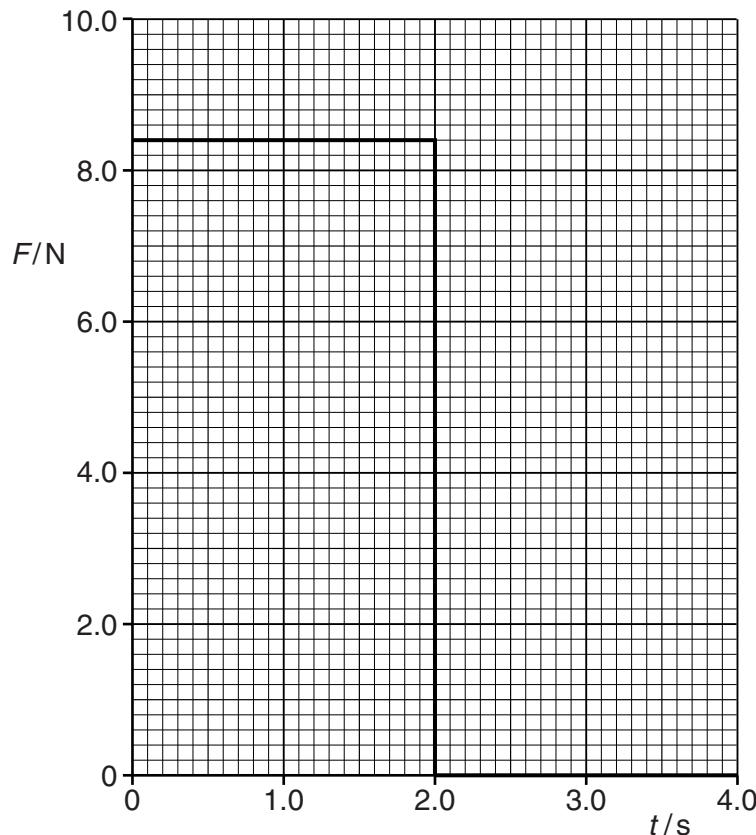
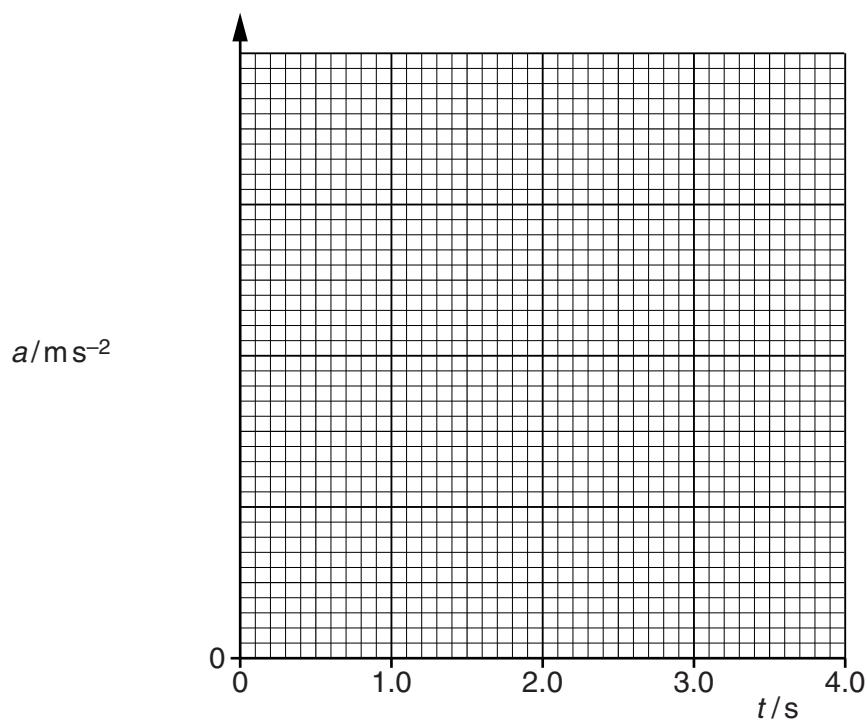


Fig. 2.1

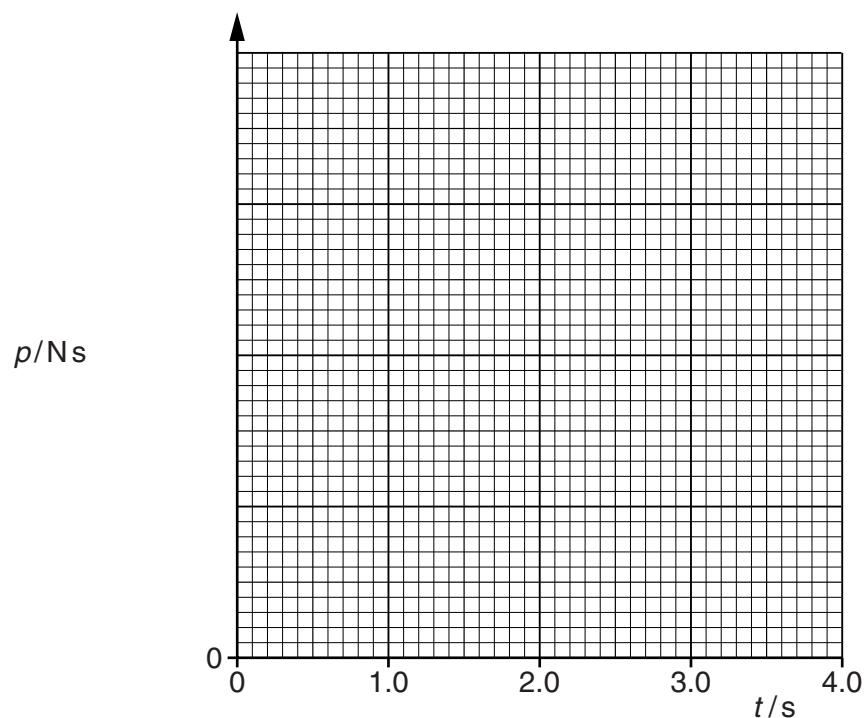
The object starts from rest.

- (i) On Fig. 2.2, show quantitatively the variation with t of the acceleration a of the object. Include appropriate values on the y -axis.

**Fig. 2.2**

[4]

- (ii) On Fig. 2.3, show quantitatively the variation with t of the momentum p of the object. Include appropriate values on the y -axis.

**Fig. 2.3**

[5]