

- 5 The density of steel is  $8050 \text{ kg m}^{-3}$  while that of mercury is  $13600 \text{ kg m}^{-3}$ .  
What is the fraction of a piece of steel that will be submerged if it is floating in mercury?

**A** 0.16

**B** 0.37

**C** 0.59

**D** 0.81