1   A factory packs x boxes of teabags per hour.

Each box contains 80 teabags.

Show that the factory packs $\dfrac{4x}{3}$ teabags per minute.

[2 marks]

$$80 \times x = 80x \text{ ①}$$

$$\frac{80x}{1\,hour} \times \frac{1\,hour}{60\,mins} = \frac{80}{60} x \text{ ① per mins}$$

$$= \frac{4x}{3} \text{ per mins}$$