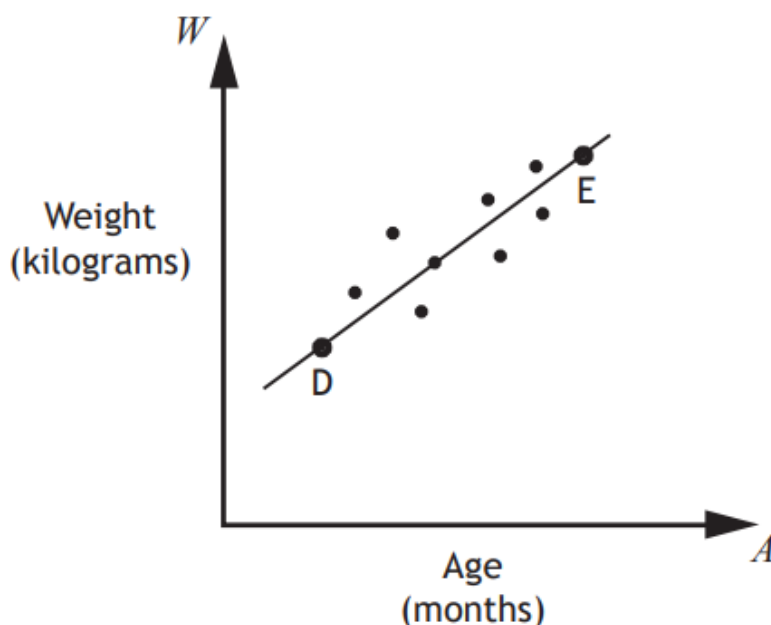A cattle farmer records the weight of some of his calves.

The scattergraph shows the relationship between the age, A months, and the weight, W kilograms, of the calves.

A line of best fit is drawn.

Point D represents a 3 month old calf which weighs 100 kilograms.

Point E represents a 15 month old calf which weighs 340 kilograms.

(a) Find the equation of the line of best fit in terms of A and W.

Give the equation in its simplest form.   3

(b) Use your equation from part (a) to estimate the weight of a one **year** old calf.

Show your working.   1

Answers: (a) $W = 20A + 40$ or equivalent   (b) 280 kg