5 **(a)** Discuss the advantages of intensive livestock production.

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..... [3]

(b) One disadvantage of intensive livestock production is that antibiotics are often used.

Suggest why antibiotics are needed in intensive livestock production.

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..... [2]

(c) Fig. 5.1 shows the changes in antibiotic use in livestock production in seven countries between 2010 and 2016.

The suggested limit for antibiotic use in livestock is 50 mg per kg of livestock.

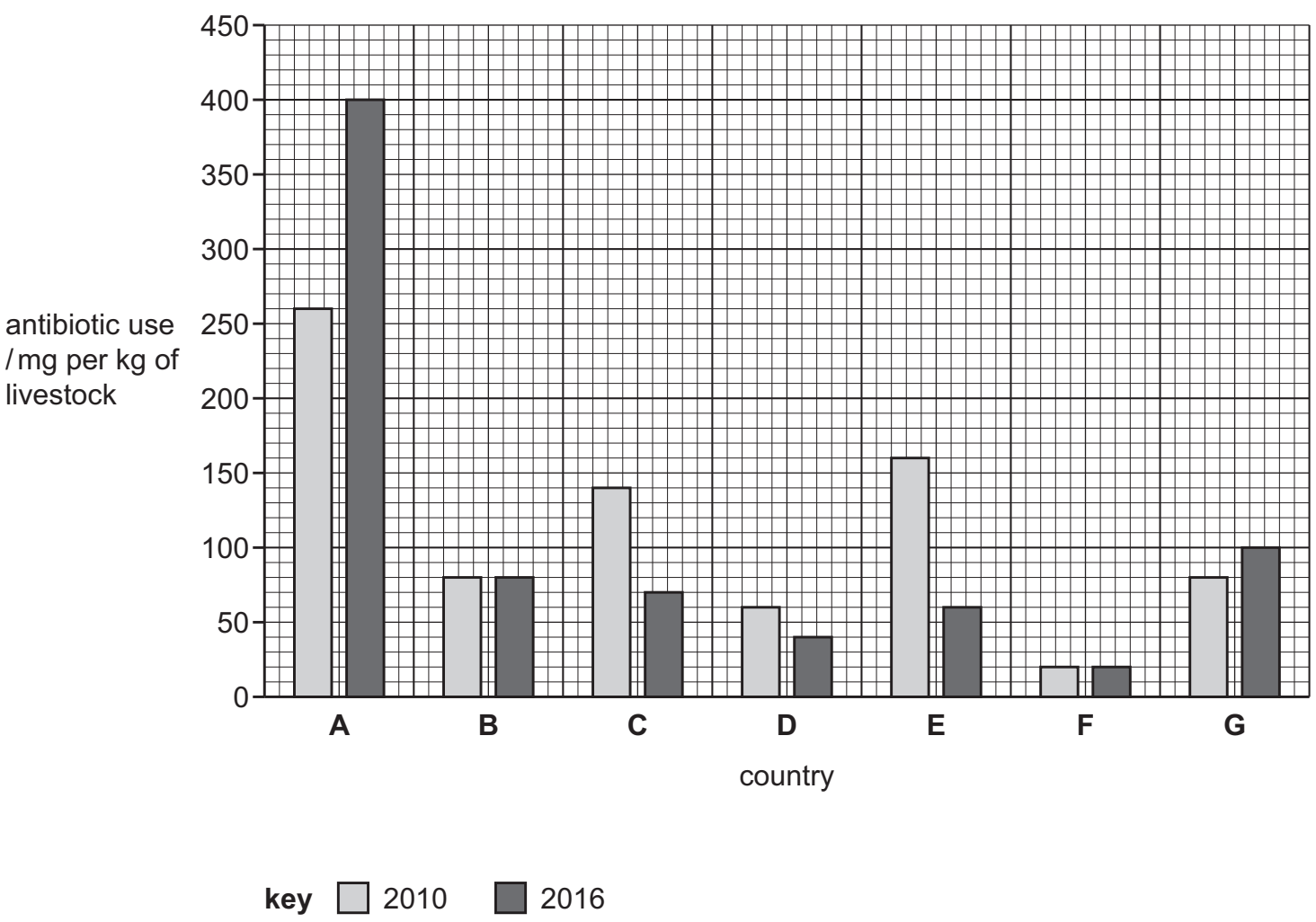

Fig. 5.1

(i) State the letters of the countries in Fig. 5.1 that used less than the suggested limit of 50 mg of antibiotics per kg of livestock in 2016.

..... [1]

(ii) Calculate the percentage increase in antibiotic use in country **A** in Fig. 5.1 between 2010 and 2016.

Give your answer to **two** significant figures.

Space for working.

..... [3]

(iii) Explain the development of antibiotic resistance in bacteria.

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[Total: 13]