**19.4** Using the six points listed on page 253, explain why the proportion of dark peppered moths near Manchester in Britain increased at the end of the 19th century.  
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**19.5** Why is it unwise to use antibiotics unnecessarily?  
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**19.6** What is meant by stabilising selection? Give one example.  
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**19.7** Draw a genetic diagram to show how two heterozygous parents can have a child with sickle cell anaemia.

**19.8** Imagine you are a farmer with a herd of dairy cattle. You want to build up a herd with a very high production of milk. You have access to sperm samples from bulls, for each of which there are records of the milk production of his offspring. What will you do?  
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**19.9** Wheat is attacked by many different pests, including a fungus called yellow rust,

1. Describe how you could use artificial selection to produce a new variety of wheat which is naturally resistant to yellow rust,   
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2. How could the growing of resistant varieties reduce pollution?  
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3. When resistant varieties of wheat are produced, it is found that after a few years they are infected by yellow rust again. Explain how this might happen.  
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