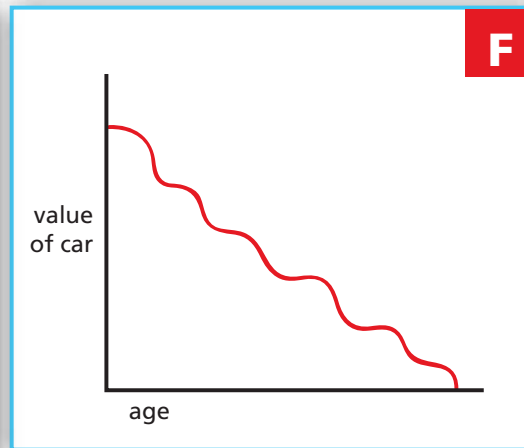
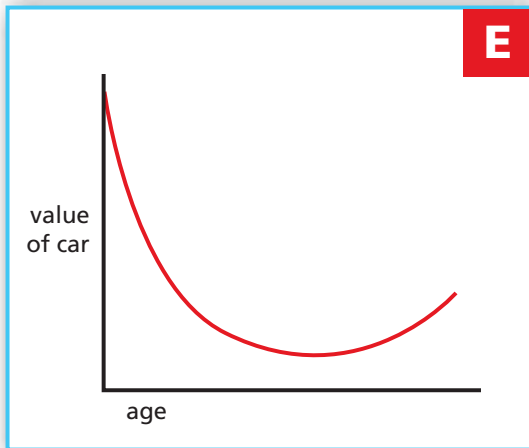
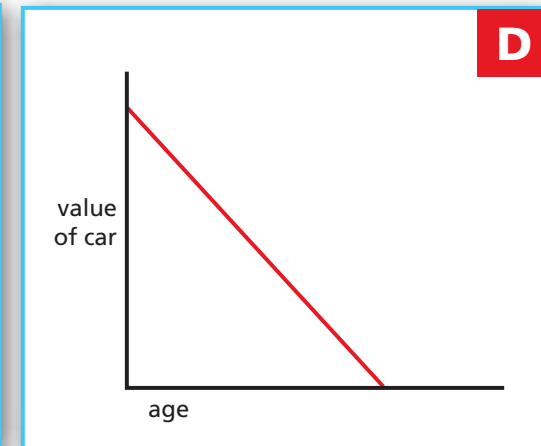
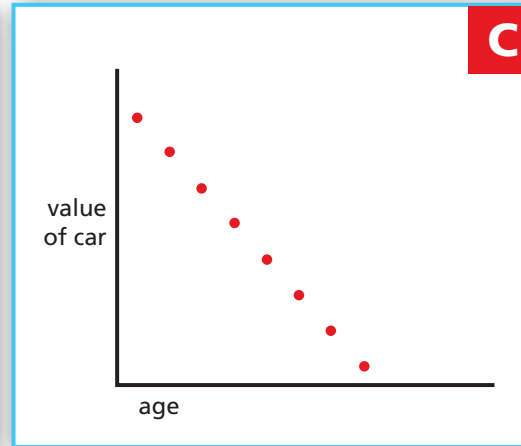
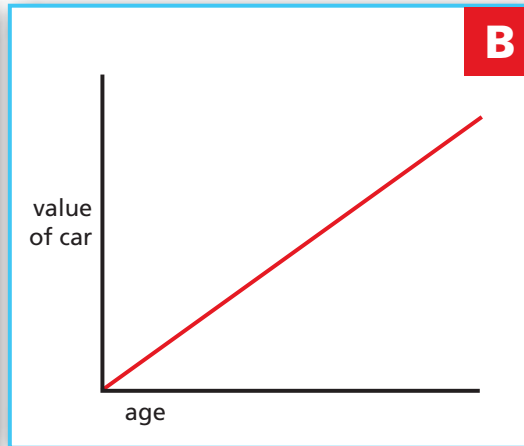
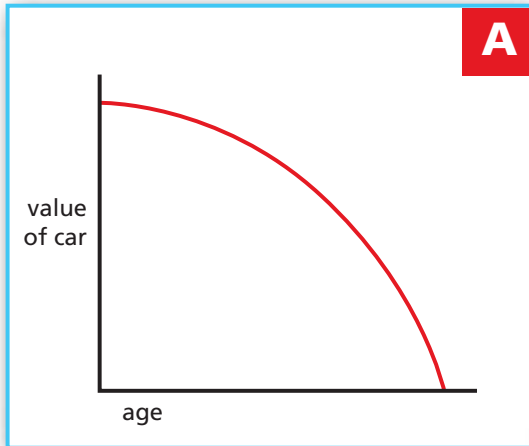


Starter

Graphs that make sense (1)

The value of a car varies with its age.



Which graph best represents the relationship?

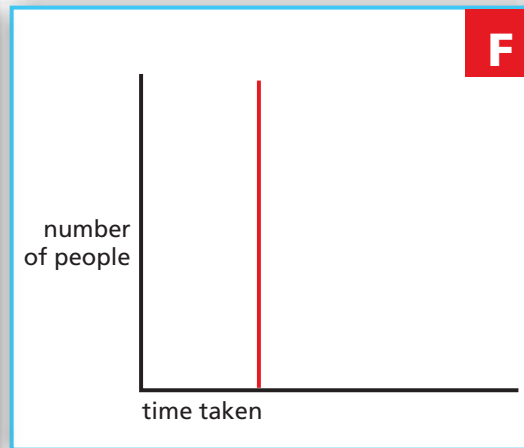
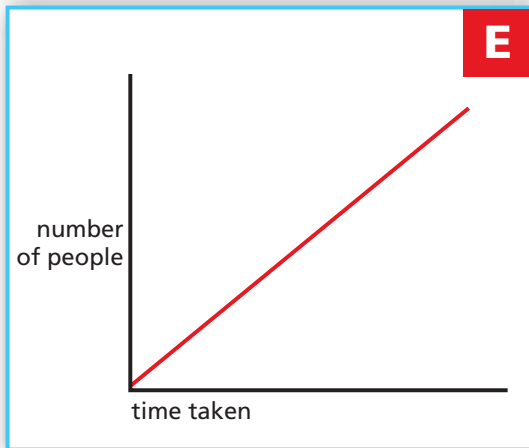
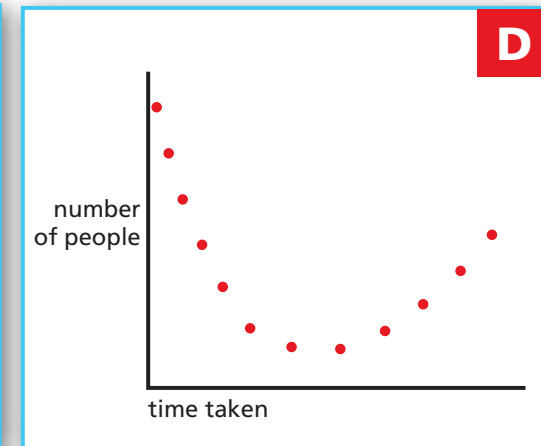
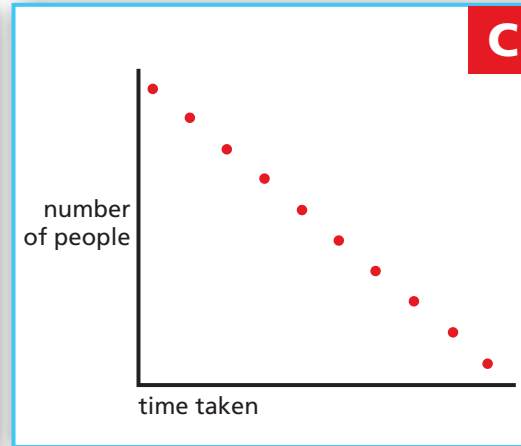
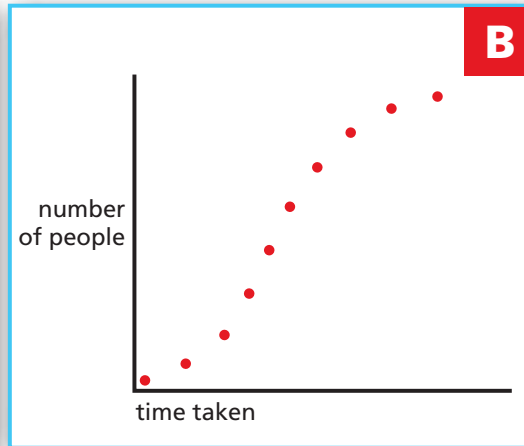
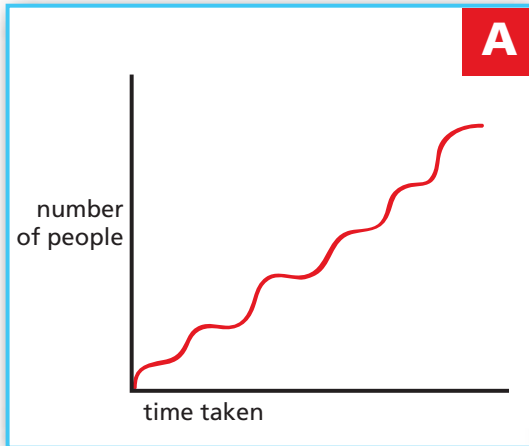


Based on an idea from *smile mathematics*.

Starter

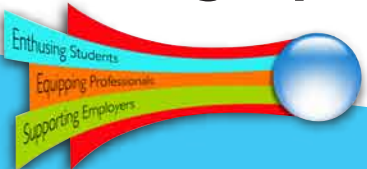
The time taken to put up a marquee varies with the number of people working.

Graphs that make sense (2)



Which graph best represents the relationship?

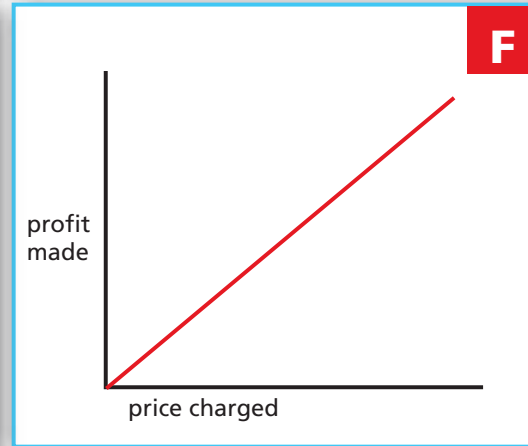
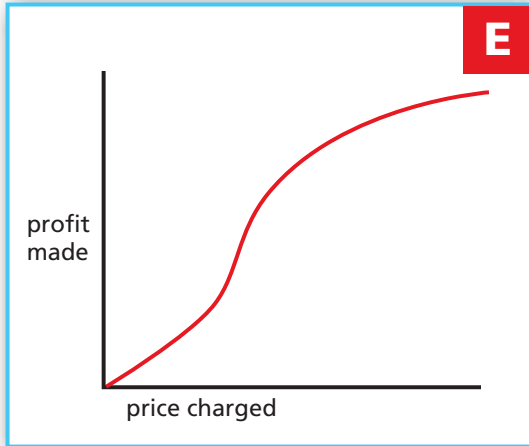
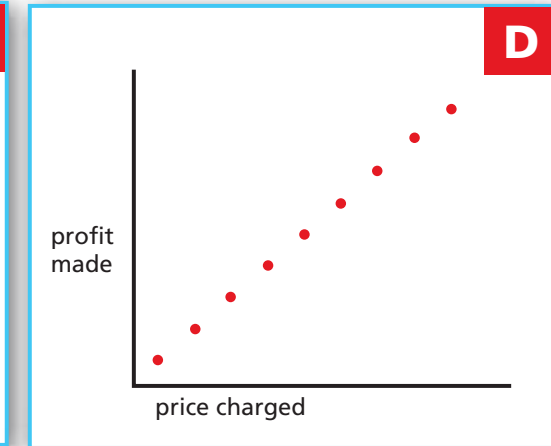
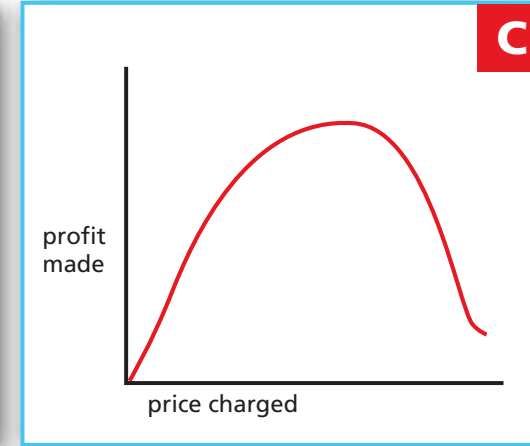
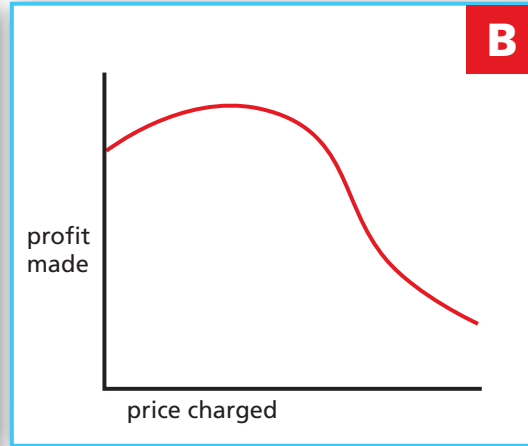
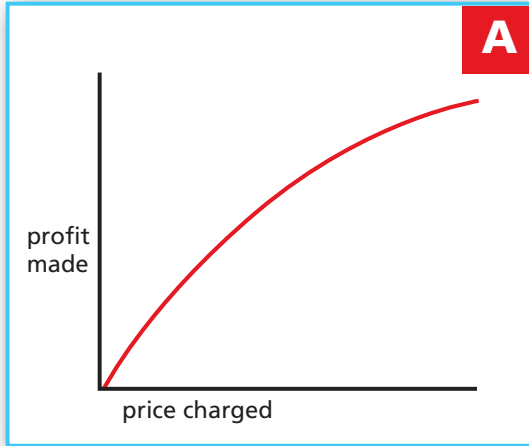
Based on an idea from *smile mathematics*.



Starter

Graphs that make sense (3)

The profit made by someone selling ice cream varies with the price.



Which graph best represents the relationship?



Based on an idea from *smile mathematics*.

Graphs that make sense

These three lesson starters are designed to link thinking about careers to activities suitable for the mathematics classroom.

Starters

Graphs that make sense (1), (2) and (3)

Planning for teaching

Understanding graphs is a topic with which many pupils struggle. **Graphs that make sense** requires the pupils to think how variables are connected and how that in turn dictates the shape of the graph. Sometimes more than one graph may be considered plausible – pupils can be invited to justify their choices to the class. This will allow the opportunity for misconceptions to emerge – pupils can be challenged to try to support each other in overcoming these.

Want to know more?

Contact STEM Subject Choice and Careers
info@careersinstem.co.uk

The Centre for Science Education
Sheffield Hallam University
City Campus, Howard Street
Sheffield S1 1WB

Tel: 0114 225 4870

or for more information on careers go to Maths careers at www.mathscareers.org/
or Future Morph at www.futuremorph.org/

A Department for Education initiative to promote subject choice and careers in Science, Technology, Engineering and Maths (STEM) delivered by the Centre for Science Education at Sheffield Hallam University and Babcock.

Crown Copyright 2010

Extracts from this document may be reproduced for non-commercial research, education or training purposes on the condition that the source is acknowledged. For any other use please contact hmsolicensing@opsi.x.gsi.gov.uk

