

SCALES OF PRODUCTION

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

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BATCH PRODUCTION

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You should now understand the meaning of single item production. However, your project work must show various way of manufacturing products. Single item production may suit some products better than others.

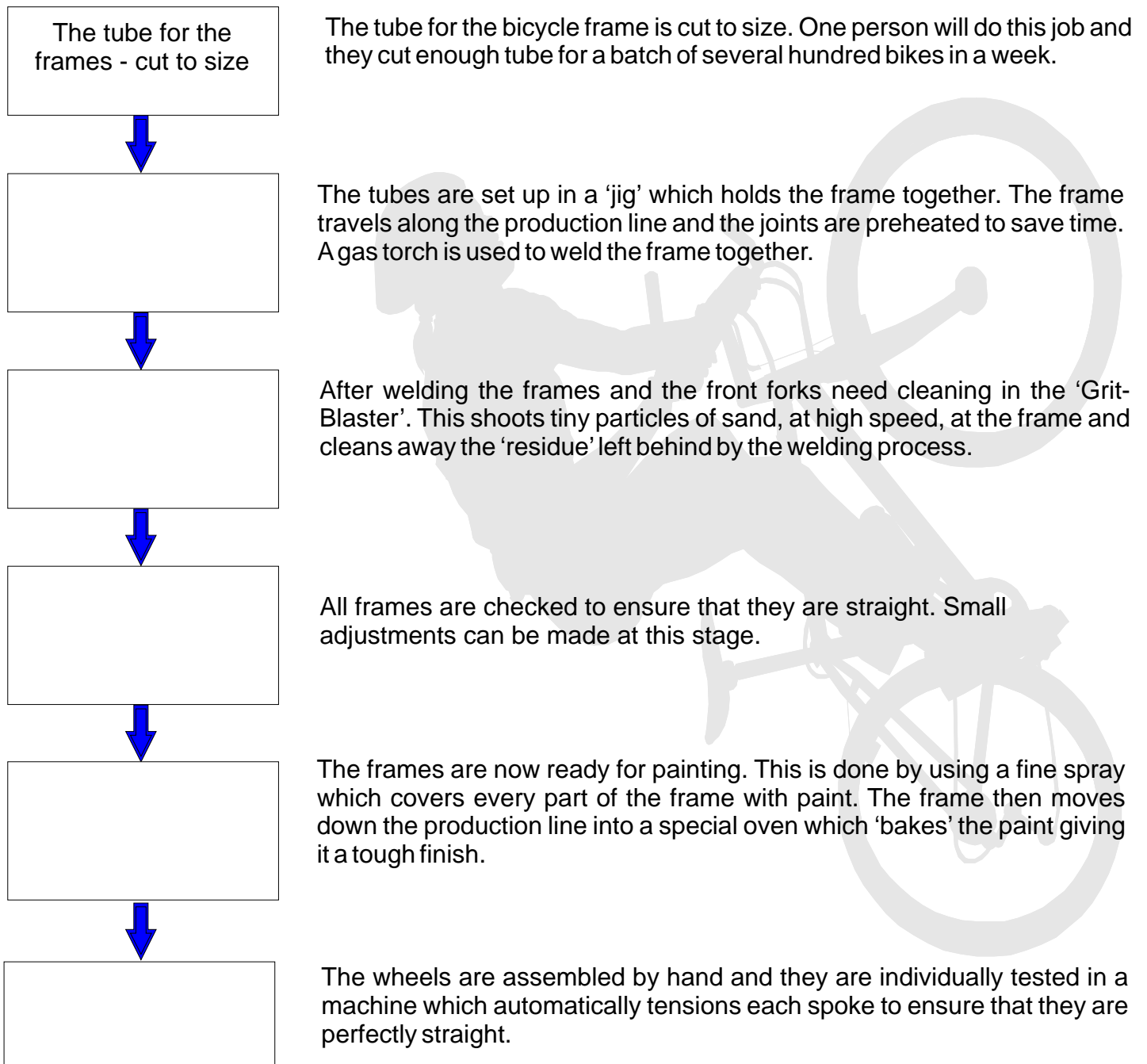
WHAT IS BATCH PRODUCTION ?

If your design was to be manufactured by batch production several hundred would be made on a production line. Each person/machine on the production line would complete one part of your product and then it would be passed on to the next person/machine. Many items in your home will have been manufactured by batch production - can you name any ?

CASE STUDY - BICYCLE BATCH PRODUCTION

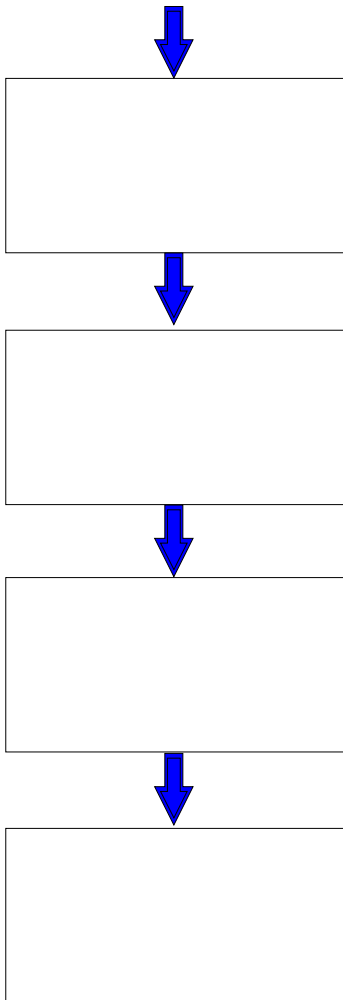
Modern bicycle manufacture is component based. The company buys parts such as pedals from other manufacturers and puts the bicycle together on a production line.

Enter a brief description of the manufacturing process into each of the flow chart boxes - using key words/phrases. The first stage has been completed for you.



BATCH PRODUCTION - continued...

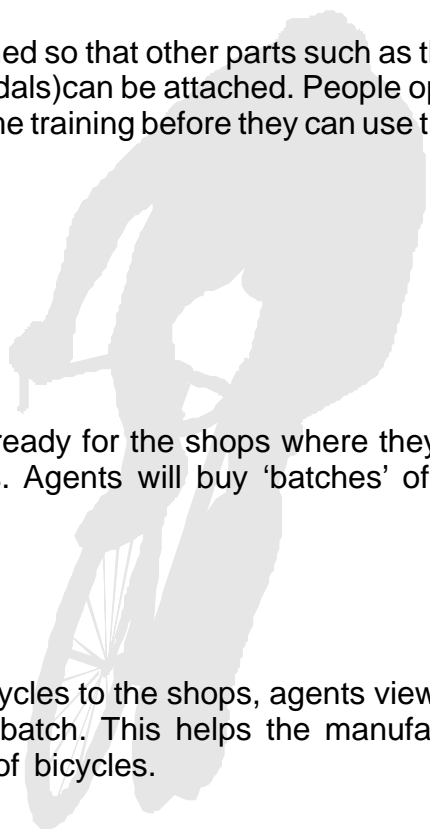
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The frames are machined so that other parts such as the handle bars and the bottom bracket (pedals) can be attached. People operate the machine tools but they need some training before they can use the machines safely and efficiently.

The bicycles are now ready for the shops where they will be viewed by customers and agents. Agents will buy 'batches' of bicycles for large stores.

Before sending the bicycles to the shops, agents view them and suggest changes for the next batch. This helps the manufacturer improve the design and production of bicycles.



QUESTIONS:

1. Explain the difference between batch production and single item (one off) production.

2. Are the workers who manufacture single items (one offs / prototypes) more skilled than those who work on a production line in a factory that carries out batch production?
