



## Exam Questions

### Warm-Up Questions:

1. What is meant by the term 'social responsibility'?
2. What type of force would be used to twist the lid off a jar?
3. Explain what is meant by 'down time' in batch production.
4. A company wants to manufacture 100 000 identical nappies.
  - a) What type of production would be best suited for this?
  - b) What is the advantage of this type of production when it comes to hiring workers?
5.
  - a) What is the purpose of quality control?
  - b) Explain why only a sample of the manufactured items are used in quality control.

### Worked Exam Questions:

1. Sheets of glass are usually produced by continuous production.
  - a) What is meant by the term 'continuous production'?

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- b) Give **one** advantage of using continuous production.

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2. **Figure 1 shows a man in a hammock**

- a) Force A acts on the ropes that attach the Hammock to the beam above. Force B acts on the hammock due to the weight of the man. Name these **two types** of force

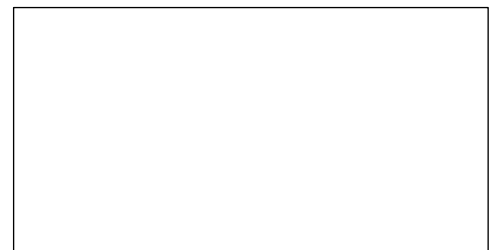


Figure 1

Force A: .....

Force B: .....



b) Some hammock straps are made from webbing.

i. What is webbing?

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ii. Suggest why webbing is sometimes used to make hammock straps.

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# Exam Questions

1. An outdoors company wants to sell a folding table to be used by campers.
  - a) The designers of the table are trying to select a material for the legs and table top. Give **two** functional considerations that they should bear in mind.
    1. ....  
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    2. ....  
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  - b) The company wants the table to be manufactured using materials in stock forms and sizes as they are widely available. Give **one** benefit of using widely available materials.  
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  - c) The company will buy the materials in bulk as they intend to mass produce the table. How might bulk buying the materials affect the price at which the table is sold at? Explain your answer.  
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2. There are many ways of ensuring consistency and accuracy between products during manufacture.
  - a) A depth stop can be used to ensure holes are drilled to an exact depth. Describe how depth stops ensure consistency when drilling.  
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  - b) Laser cutters have the correct settings for the laser to cut out a material accurately. Give **two** settings which must be correctly selected.



- 1. ....
- 2. ....

c) Photo-etching is a process that is used to manufacture printed circuit boards (PCB's).  
Give **one** way of ensuring PCB's are made consistently during photo-etching.

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