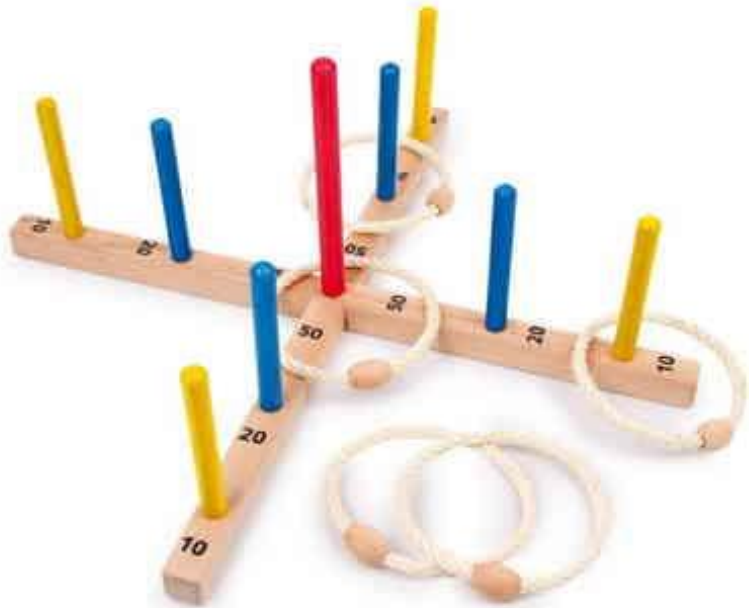


Could you make this?



R

Title: Robots in Industry

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^{R3} I act upon feedback to improve my work
^{R4} I take the time to make my work the best it can be
These skills and attitudes will improve your outcomes and grades

To secure understanding:
To describe how machines are used in making

To develop knowledge
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Computers can make things much easier when manufacturing a product. Give 3 reasons why you think machines could make a product better than a human.

Discuss your answer with the person next to you. Be ready to share your answers with the whole class.

There are lots of issues with using computers/machines to make products. Give 3 reasons why you think machines could be difficult to use when making a product.

Discuss your answer with the person next to you. Be ready to share your answers with the whole class.

Key Words

Vector
Raster
Engrave
Function
Design Tools
Import
UserDefined

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Advantages

- Can be more accurate than hand-drawn designs - it reduces human error.
- You can save and edit ideas, which makes it easier and cheaper to modify your design as you go along.
- You can modify existing ideas, which saves time.

Disadvantages

- The software itself can be expensive so initial costs are high. There are free software packages though.
- Staff need to be trained how to use the software, which also adds to costs.
- Requires a PC.

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Should we use machines to make all our products? (6 marks)

To answer this question you should choose one side of the argument, Yes or No.

As a 6 mark question you should have three points to back up your opinion. Each of these points should then be explained as why it supports your point. An example is shown below.

We should not be using computers and machines to make all our products because people will lose their jobs. When machines are used to make something they do not need a break or be paid so they can replace several humans to do the same job. This means lots of people will be unemployed.

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<https://www.youtube.com/watch?v=DYoBUhADU5s>

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Task A

Write a letter to the manager of a manufacturing company explaining how using machines to make their product could save them money.

Task B

Explain why a company like Ikea needs to use machines to make their products.

Task C

Give two advantages and two disadvantages for using machines to make a door sign.



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Homework

Find an example of a product made using the following production processes and explain why this is the case.

Assembly Line –

3D Printer –

Milling Machine –

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