

EXAM QUESTIONS — Use the questions to test your progress. Check your answers on page 94.

1. A caf requires a set of stands to hold its menus.

Thirty stands are required.

Give three specification points for the stand. (3 marks)



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2. When the handle of the animal toy face is pushed and pulled the wings move as indicated.

a) What type of motion is made by the handle? (1 mark)

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b) What type of motion is made by the wing? (1 mark)

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c) Which is the input motion and which is the output motion? (1 mark)

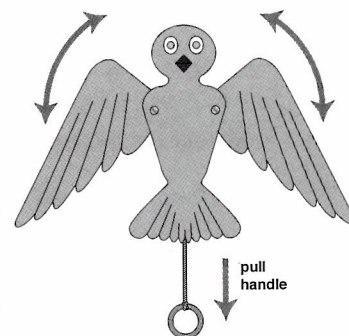
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d) What type of mechanism could be used to make the wings move? (1 mark)

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3. A manufacturer needs to produce a desk tidy as shown.

a) State two things you would have to find out before starting the design. (2 marks)

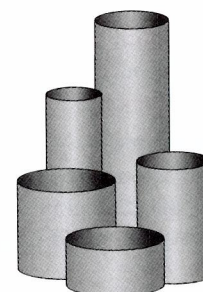
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b) Why may the solution be a poor design? (1 mark)

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4. The diagram shows a wooden toy where the flag moves up and down when it is pulled along.

a) What mechanism would make the flag move up quickly and then down slowly? (1 mark)

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b) State two advantages of this type of mechanism. (2 marks)

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