BRIDGES AND FORCES

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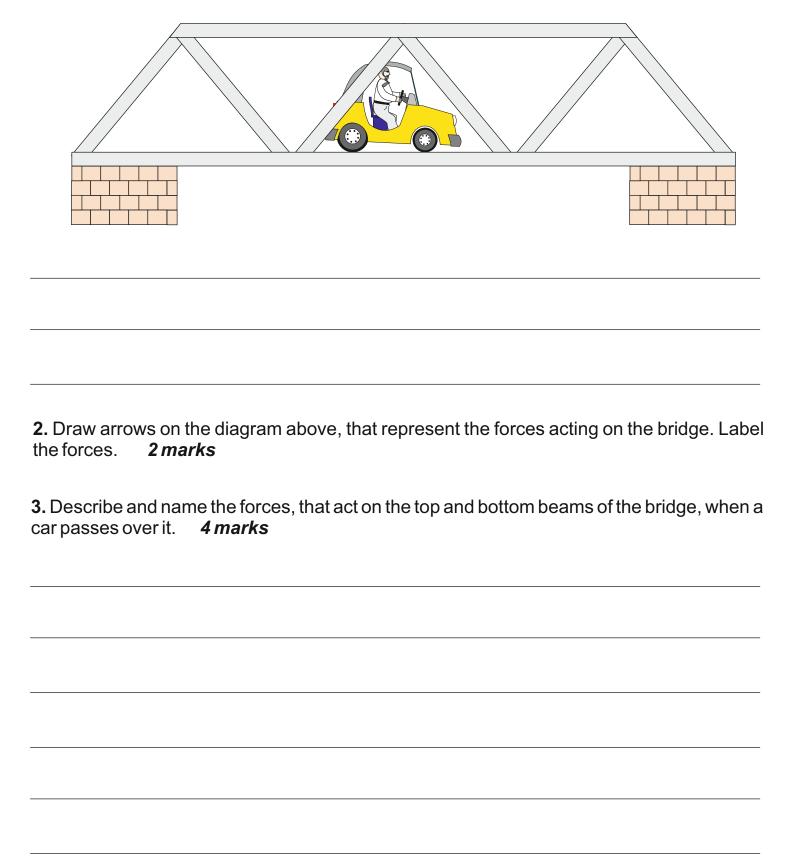
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1. The Box Girder bridge drawn below, is composed of triangular shapes. Why is this the case? **2** *marks*



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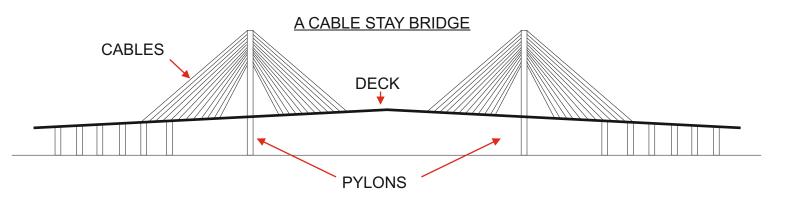
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4. A Cable Stay bridge is drawn below. On the diagram, draw arrows that represent the forces acting on the main parts. Label the forces. *2 marks*



5. Draw a diagram of the 'deck' of the bridge shown above. Add labels that identify the forces applied to it, when vehicles travel across its surface. **4 marks**

6. Explain how the forces you named when labelling the diagram, act on the cable stay bridge. 4 marks