




Name: ..... Form: .....

See pages 10 and 11 of *Forces in action*

# Forces that balance

If forces are balanced, nothing moves.

**Q1.** (i) What are the objects labelled A?

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(ii) The two cups are not moving.  
Draw arrows to show the forces acting on them.

(iii) What will happen if more sand is added to cup Y?

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(iv) Explain your answer.


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**Q2.** Why don't you sink through your chair when you sit down?

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**Q3.** What is a pivot?  .....

**Q4.** If an apple and a pencil sharpener are on opposite arms of a see-saw, and at the same distance from the pivot, which way does the see-saw tip?

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**Q5.** How can the pencil sharpener be made to balance the apple on the see-saw?

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