

# Stability and Motion: Forces and Interactions

## Check for Understanding

1. Circle the correct simple machine to complete the sentence.

In the picture the man is lifting the box using \_\_\_\_\_.

a pulley          an inclined plane          a lever



How should the person in this picture make the box rise? Use the words “balanced forces” or “unbalanced forces” in your answer.

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2. Look at the following picture.



Why will the ball eventually stop rolling as it crosses the empty field?

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3. Circle the correct simple machine to complete the sentence.

The simple machine in the picture below is a \_\_\_\_\_.

pulley

lever

wheel and axle



4. Describe the **effort force** and the **resistance force** as the girl pulls the wagon up the hill.

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5. Explain how this picture is showing a force with a push or a pull.



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6. Look at the following picture.



Explain how this picture is showing a force with a push or a pull.

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