1. What is a force?

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1. What causes any change in motion?

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1. What is the SI unit used for measuring force?

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**Identify which of the following is exerting a force. Write force or no force on the line.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A woman pushes the elevator button.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A pile of soil sits on the ground.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A balloon rubbed on the fur of a cat.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Magnets stick to the refrigerator.
5. When all forces acting on an object are combined together, the result is known as the

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1. Forces are balanced when the net force is equal to a certain number of Newtons. What is that number?

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1. Two dogs are pulling on a rope in a tug-of-war. The dog on the left pulls with a force of 13N, while the dog on the right pulls with a force of 12N. Which dog will win the tug-of-war? Explain your answer.

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