

**Science 8**

**8.1A Forces**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

*Read p 276- 278 and answer the following questions*

1. What is a force?
  
2. What are six examples of forces
  
3. What is weight?
  
4. Give two examples of forces that cause an object to move.
  
5. Give an example of a force used to stop an object.
  
6. Give an example of a force used to change the direction of an object
  
7. Give two examples of a force used to change the shape of an object.
  
8. How many categories of forces are there?
  
9. What are contact forces? What is an example of a contact force?
  
10. Look at figure 8.3 and answer the following questions
  - a. What are the three different contact forces?

- b. What is a tension force?
- c. What is a friction force?
- d. What is an elastic force?

11. What is the second category of forces? What does this type of force do?

12. Look at figure 8.4 and answer the following questions

- a. How many action-at-a-distance forces are there?
- b. What is gravitational force?
- c. What two things does the force of gravitation depend upon?
- d. Why don't we notice our own gravitational force?
- e. What is another name for electrostatic force?
- f. What is electrostatic force?
- g. What can electrically charged particles be?
- h. What is static electricity?
- i. How do charges act on each other?
- j. Give an example of repulsion and attraction

k. What metals does magnetic force act on?

l. What two other things can have a magnetic field?

Name \_\_\_\_\_

Date \_\_\_\_\_

Use with textbook pages 276–285.

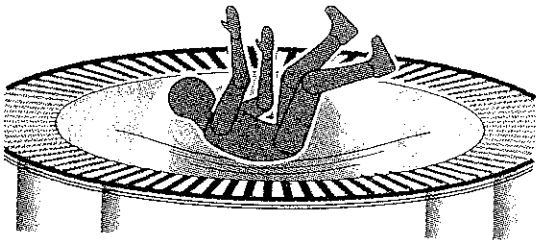
## Name the force

On the first blank line, state what type of force is illustrated in the picture.

Choose from the following list: tension, friction, elastic, gravitational, static electricity, magnetic.

On the second blank line, state whether it is a contact force or an action-at-a-distance force.

1.

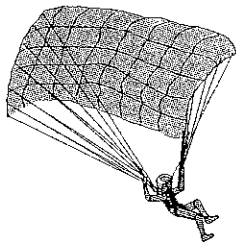


The trampoline stretches.

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2.

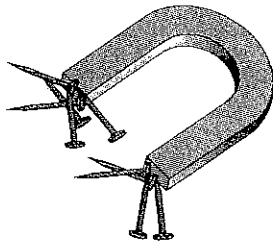


A person parachutes from the sky.

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3.

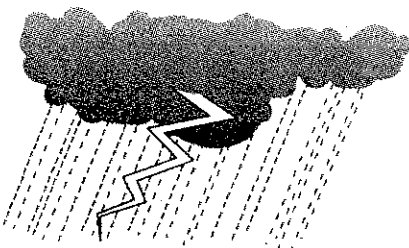


A magnet collects the iron nails.

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4.



A rain cloud produces lightning.

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