

Name: _____

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Chapter 5.3 Homework
Conceptual Physics

Parent Signature: _____

Reviewing Concepts

Each question is worth 1 point.

13. List four types of friction.

- | | |
|----|----|
| a. | b. |
| c. | d. |

14. In which direction does friction act?

15. What is the difference between static friction and sliding (dynamic) friction?

16. What causes friction?

17. Why is it easier to slide a cardboard box when it is empty compared to when it is full?

18. Explain the two ways friction can be reduced.

- | | |
|----|----|
| a. | b. |
|----|----|

19. Is friction something we always want to reduce? Explain.

Solving Problems

Each question is worth 1 point.

9. Your backpack weighs 50 N. You pull it across a table at a constant speed by exerting a force of 20 N to the right. Draw a free-body diagram showing all of the forces on it. State the strength of each.

10. You exert a 50-N force to the right on a 300-N box but it does not move. Draw a free-body diagram for the box. Label all the forces and state their strengths.