

Chapter 7

Use with Section 1

REINFORCEMENT

● Newton's First Law

15	2	11	3	6	11	15	7	10	13	11	14	4	5	15	6	2	7	11	10	15	13	13	3	7	11	2	8	5
14	1	12	5	7	12	1	9	2	1	3	12	9	15	2	11	8	13	2	5	8	3	14	12	14	6	3	8	5
13	3	4	8	10	9	4	11	3	2	2	12	8	6	12	12	9	7	9	15	2	11	10	11	6	3	15	9	4
10	8	2	3	13	2	5	8	12	10	8	9	9	10	11	3	8	6	12	4	9	9	13	12	4	8	11	4	1
15	9	11	9	14	8	6	4	13	5	3	11	2	14	3	8	12	7	3	10	1	14	7	2	1	12	9	2	11

Mark each statement below either true or false. For each true statement, fill in all the corresponding numbers in the box above. When you're done, you'll find an important word from this chapter.

- _____ 1. When the net force is zero, the forces on an object are balanced.
- _____ 2. When forces are not balanced, an object may keep moving forever.
- _____ 3. Galileo got in trouble for declaring that the sun circles Earth.
- _____ 4. According to Newton's first law of motion, it is true that an object at rest will stay at rest until a net force acts upon it.
- _____ 5. According to Newton's first law of motion, it is true that an object moving at a constant speed in a straight path will continue to do so until a net force acts upon it.
- _____ 6. Friction brings many moving objects to a stop.
- _____ 7. Friction will never speed up an object.
- _____ 8. Galileo believed that the natural state of an object was to be at rest.
- _____ 9. If you slide a bag of groceries along a countertop, you must first overcome rolling friction.
- _____ 10. Walking would be impossible without friction.
- _____ 11. Rolling friction always reduces the net force acting against an object's motion to zero.
- _____ 12. The normal force is always opposite in direction to weight.
- _____ 13. Air resistance slows the motion of moving objects.
- _____ 14. The faster you go, the stronger is the force of air resistance.
- _____ 15. Friction can be reduced but never eliminated.