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|  | Question | Answer |
| 1 | When Mr. Ball is lost and calls for help, he must have a \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ to determine his location. |  |
| 2 | In order for velocity to change, there must be a change in either the \_\_\_\_ or the \_\_\_\_\_. |  |
| 3 | What is the formula to solve for average speed? |  |
| 4 | A change in position results in \_\_\_\_\_\_\_\_\_. |  |
| 5 | Fill in the labels on the graph to complete a speed-time graph.

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 | Word Bank: Horizontal Vertical Speed Time x-axis y-axis |
| 6 | When constant speed is graphed, what does the line look like?

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| 7 | On a speed-time graph, describe what the line looks like when the speed increases. |  |
| 8 | Gravity is an example of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ force. | Contact / Noncontact |
| 9 | \_\_\_\_\_\_\_ has size and direction. |  |
| 10 | When you sit on your chair, there is \_\_\_\_\_\_\_ force between you and your desk. This \_\_\_\_\_\_\_\_\_\_\_\_ force is small/large because… |  |
| 11 | Match the following:1. Balanced force A. 500N and 600N pulling against each other
2. Unbalanced force B. 500N and 500N in opposite directions
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| 12 | \_\_\_\_\_\_\_\_\_ is produced by unbalanced forces. |  |
| 13 | Are mass and weight the same or different? Explain. |  |
| 14 | When Mrs. Savage pushes on the wall with 30N, what is the measure of the force acting on Mrs. Savage? |  |
| 15 | Match the following:1. Newton’s 1st Law of Motion2. Newton’s 2nd Law of Motion (force, mass, acceleration)3. Newton’s 3rd Law of Motion (“for every action there is an equal but opposite reaction”)\_\_\_\_ A biker hits a rock and flies forward over the handlebars, and the bike stops.\_\_\_\_ The harder I push a ball the faster it rolls.\_\_\_\_ A fish can swim forward because it is pulling against the water. |  |