Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ JMJ Date \_\_\_\_\_\_\_\_\_\_\_

Period \_\_\_\_\_\_\_\_\_ Physical Science

1. After 30 s, a runner is sprinting at 3m/s. But 10 s later, the runner is sprinting at 8 m/s. What is the runner’s acceleration during this time?
2. Katie is coasting on her bicycle up a hill. After 3 s, her speed is 25m/s. After 8 s, her speed is 10 m/s. What is her acceleration during this time?
3. A car was moving at 14m/s at 0s. After 30 s, its speed increased to 20m/s. What was the acceleration during this time?
4. Pat’s younger sister is riding her tricycle in a straight line. After 3 s, her speed is 0.5 m/s. After 5 s, her speed is 1.5 m/s. What is her acceleration during this time?
5. The ball is rolling at 3 s at 13 m/s. At 7 s the ball rolls at 5 m/s. what is the acceleration during this time?
6. At 0 s, the truck is moving at 10 m/s. At 5 s, the truck is moving at 20 m/s. At 10 s, the truck is moving at 35 m/s. What is the acceleration of the truck from 5 s to 10 s? From 0 s to 10 s?

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| --- | --- |
| Time (s) | Speed (m/s) |
| 6 | 36 |
| 8 | 45 |
| 10 | 54 |
| 12 | 63 |
| 15 | 72 |

1. Jane’s younger sister is riding her skateboard in a straight line. At 15 seconds later, her speed is 18 meters per second. But 9 seconds later, her speed is 45 meters per second. What is her acceleration during this time?
2. Kim and Julio go to a raceway to watch Julio’s older brother, Raul, compete. From rest, Raul’s car covers the 2.5 km in 12 seconds, reaching a speed of 180 m/s. What is his acceleration?
3. From rest, a rollercoaster runs to 60 m/s in 30 s. What is its acceleration?
4. Please refer to the chart (🡪) to find the acceleration.

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