# Name Period Date

# Speed and Acceleration – Ch. 11

1. A car traveled 1025 kilometers from El Paso to Dallas in 13 hours. What was its average velocity?

|  |  |
| --- | --- |
| **given** | **work** |
|  |  |
| **answer** | |

1. A train travels at a speed of 30mph and travel a distance of 240 miles. How long did it take the train to complete its journey?

|  |  |
| --- | --- |
| **given** | **work** |
|  |  |
| **answer** | |

1. If the average speed of a car is 45 km/hr, how far can it travel in 40 min?

|  |  |
| --- | --- |
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| answer | |

1. John is a runner. He runs the 100m sprint in 10.6s. At what speed did he travel? (in m/s)

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1. A girl cycles for 3hrs at a speed of 40 km/h. What distance did she travel?

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1. A car traveling north with a velocity of 30 m/s slows down to a velocity of 10 m/s within 10 seconds. What is the car’s acceleration?

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1. Neil traveled 36km at a speed of 8km/h. Grant traveled 48km at a speed of 10km/h

a) Whose journey was quickest?

b) By how many minutes?

|  |  |
| --- | --- |
| **given** | **work** |
|  |  |
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1. Falling objects drop with an average acceleration of 9.8 m/s2. If an object falls from a tall building, how long will it take before it reaches a speed of 49 m/s?

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