Name Period Date

**Speed and Acceleration – Ch. 11 (worksheet 2)**

1. A cyclist travels 20 km in 4 hours. At what speed did the cyclist cycle?

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

1. A coach travels from the station to the beach, a distance of 576km in 6hrs. The coach is only allowed to travel at a maximum speed of 90km/h. Did the coach break the speed limit?

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

1. Lauren walks 100m in half a minute. What must her speed have been in meters per second (m/s) to travel this distance?

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

1. A mouse runs a distance of 2 meters in 15 seconds. What is its speed?

|  |  |
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1. Mr. Dunn drives 64.8km from work at a speed of 48km/h. Mrs. Dunn drives 81.2km from work at a speed of 58km/h. They both leave work at the same time.

a) Who arrives home first?

b) How many minutes later is it before the second person gets home?

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

1. A roller coaster car rapidly picks up speed as it rolls down a slope. As it starts down the slope, its speed is 4 m/s. But 3 seconds later, at the bottom of the slope, its speed is 22 m/s. What is its average acceleration?

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

1. A lizard accelerates from 2 m/s to 10 m/s in 4 seconds. What is the lizard’s average acceleration?

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

1. If a Ferrari, with an initial velocity of 10 m/s accelerates at a rate of 50 m/s2 for 3 seconds, what will its final velocity be?

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