

UNIT 2



Speed and Velocity

Speed is a quantity that measures the distance an object travels in a given time interval.

$$\text{speed} = \frac{\text{distance}}{\text{time}} \qquad v = \frac{d}{t}$$

Velocity is a vector that includes speed and direction.

Answer the following questions about speed and velocity.

1. A car is driving west on a highway at 25 m/s. What is the car's speed in km/h?

2. What is the car's velocity?

3. If the positive direction is defined as "toward the east," what is a mathematical expression of the car's velocity?

4. How far does the car travel in 5 minutes? Express your answer in m and km.

5. Polar bears are extremely good swimmers and can travel as long as 10 hours without resting. If a polar bear swims with an average speed of 2.6 m/s, how far does it travel in 10.0 hours? Express your answer in m and km.

6. Suppose the polar bear were running on land instead of swimming. If the polar bear runs at an average speed of 8.3 m/s, how far does it travel in 10.0 hours? Express your answer in m and km.

7. A walrus can swim faster than a polar bear, but has less endurance. If a walrus swims at an average speed of 9.7 m/s, how far does the walrus swim in 3.4 minutes? Express your answer in m and km.

8. Tree sloths are the slowest mammals on Earth. An typical tree sloth moves with a maximum speed of 0.075 m/s. How long would it take a sloth moving at this speed to travel 2.0 m?

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Lingjun Ying



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