The speed of sound at room temperature is about 343 miles per second. Calculate this speed in miles per hour 1m=1.609m 1h=60sec 1m=60 sec

Solution:

1 mile = 1609 meters;

1 hour = 3600 seconds.

For this must be multiplied by 3600 and divided by 1609.

$$v_s = 343 \; m/s = 343 \; \frac{3600 \; s}{1609 \; m} = 767.43 \; mph \; (miles \; per \; hour)$$

Answer: 767.43 mph