

Sound in dry air at 59°F or 15°C and standard..= 1,116.45 feet per second .
sea level pressure

1 1814 Ref: Misc., Speed of Sound, Distance Off B
While navigating in fog off a coastline of steep cliffs, you hear the echo of the ships fog horn 2 1/2 seconds after the signal was sounded. What is the distance to the shore?
A. 225 yards C. 750 yards $1 \quad 1,116.45 /3= \quad 372.15$
B. 460 yards D. 910 yards $2.5 /2= \quad \frac{x 1.25}{465}$

2 1815 Ref: Misc., Speed of Sound, Distance Off A
While navigating in fog off a coastline of steep cliffs, you hear the echo of the ships fog horn 2 seconds after the signal was sounded. What is the distance to the shore?
A. 360 yards C. 280 yards $2 \quad 1,116.45 /3= \quad 372.15$
B. 320 yards D. 140 yards $2 /2= \quad \frac{x 1}{372}$

3 1816 Ref: Misc., Speed of Sound, Distance Off A
While navigating in fog off a coastline of steep cliffs, you hear the echo of the ships fog horn 3 1/2 seconds after the signal was sounded. What is the distance to the shore?
A. 640 yards C. 315 yards $3 \quad 1,116.45 /3= \quad 372.15$
B. 480 yards D. 143 yards $3.5 /2= \quad \frac{x 1.75}{651}$

4 1817 Ref: Misc., Speed of Sound, Distance Off C
While navigating in fog off a coastline of steep cliffs, you hear the echo of the ship's fog horn 3 seconds after the signal was sounded. What is the distance to the shore?
A. 1100 yards C. 550 yards $4 \quad 1,116.45 /3= \quad 372.15$
B. 872 yards D. 792 yards $3 /2= \quad \frac{x 1.5}{558}$

5 1818 Ref: Misc., Speed of Sound, Distance Off D
While navigating in fog off a coastline of steep cliffs, you hear the echo of the ship's fog horn 4 1/2 seconds after the signal was sounded. What is the distance to the shore?
A. 405 yards C. 730 yards
B. 628 yards D. 825 yards

6 1819 Ref: Misc., Speed of Sound, Distance Off D
While navigating in fog off a coastline of steep cliffs, you hear the echo of the ship's fog horn 4 seconds after the signal was sounded. What is the distance to the shore?
A. 209 yards C. 480 yards
B. 363 yards D. 730 yards

7 1820 Ref: Misc., Speed of Sound, Distance Off C
While navigating in fog off a coastline of steep cliffs, you hear the echo of the ships fog horn 5.5 seconds after the signal was sounded. What is the distance to the shore?
A. 3825 ft (1166 meters) C. 3072 ft (936 meters)
B. 3450 ft (1052 meters) D. 2475 ft (754 meters)

8 1821 Ref: Misc., Speed of Sound, Distance Off B
While navigating in fog off a coastline of steep cliffs, you hear the echo of the ships fog horn 6 seconds after the signal was sounded. What is the distance to the shore?
A. 1200 yards C. 1000 yards
B. 1100 yards D. 900 yards

9 1876 Ref: Misc., Speed of Sound, Distance Off B
You are approaching Chatham Strait from the south in foggy weather. You have Coronation Island and Hazy Islands on the radar. Suddenly the radar malfunctions. You then resort to using whistle echoes to determine your distance off Coronation Island. Your stopwatch reads 16.3 seconds for the echo to be heard. How far are you off Coronation Island?
A. 1.0 mile C. 2.0 miles
B. 1.5 miles D. 2.5 miles

