

Name _____

Date _____



MPH TO KNOTS CONVERSION 1

Use the fact $1 \text{ knot} = 1.151 \text{ miles per hour}$ to help you answer the questions below.
Give all your answers to 1 decimal place.

MILES PER HOUR	KNOTS
6	
12	
48	
70	
124	

WORKING OUT

- 1) A human can swim at an average speed of about 2 miles per hour.
How many knots is this? _____

 - 2) Fin whales are the fastest whales which can reach speeds of 23 miles per hour.
How fast can they swim in knots? _____

 - 3) A Bottlenose dolphin can reach speeds of 21.7 miles per hour.
How many knots is this? _____

 - 4) The record for the fastest windsurfer is 61.3 miles per hour.
How fast is this in knots? _____

 - 5) The Spirit of Australia is the world's fastest boat, managing to reach an estimated speed of 345 miles per hour.
How many knots is this? _____
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MPH TO KNOTS CONVERSION 1 ANSWERS

Use the fact $1 \text{ knot} = 1.151 \text{ miles per hour}$ to help you answer the questions below.
Give all your answers to 1 decimal place.

MILES PER HOUR	KNOTS
6	<u>5.2</u>
12	<u>10.4</u>
48	<u>41.7</u>
70	<u>60.8</u>
124	<u>107.7</u>

WORKING OUT

- A human can swim at an average speed of about 2 miles per hour.
How many knots is this? 1.7 knots

$$2 \div 1.151 = 1.73\dots$$
- Fin whales are the fastest whales which can reach speeds of 23 miles per hour.
How fast can they swim in knots? 20.0 knots

$$23 \div 1.151 = 19.98\dots$$
- A Bottlenose dolphin can reach speeds of 21.7 miles per hour.
How many knots is this? 18.9 knots

$$21.7 \div 1.151 = 18.85\dots$$
- The record for the fastest windsurfer is 61.3 miles per hour.
How fast is this in knots? 53.3 knots

$$61.3 \div 1.151 = 53.25\dots$$
- The Spirit of Australia is the world's fastest boat, managing to reach an estimated speed of 345 miles per hour.
How many knots is this? 299.7 knots

$$345 \div 1.151 = 299.73\dots$$