

Name \_\_\_\_\_

Date \_\_\_\_\_



## KNOTS TO MPH 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.

KNOTS	MILES PER HOUR
8	
15	
48	
72	
125	

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### WORKING OUT

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- 1) A human can swim at an average speed of about 2 knots.

How many miles per hour is this? \_\_\_\_\_

- 2) A sailfish can swim at speeds of 60 knots.

How fast can they swim in mph? \_\_\_\_\_

- 3) The fastest shark is a shortfin mako shark.

It can swim at speeds of 39 knots.

How many miles per hour is this? \_\_\_\_\_

- 4) A K222 submarine could reach speeds of 44.7 knots.

How many mph is this? \_\_\_\_\_

- 5) The Spirit of Australia is the world's fastest boat, managing to reach an estimated speed of 300 knots.

How many mph is this? \_\_\_\_\_

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## KNOTS TO MPH 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.

KNOTS	MILES PER HOUR
8	<u>9.2</u>
15	<u>17.3</u>
48	<u>55.2</u>
72	<u>82.9</u>
125	<u>143.9</u>

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### WORKING OUT

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- A human can swim at an average speed of about 2 knots.  
How many miles per hour is this? 2.3 mph

$2 \times 1.151 = 2.302$
  - A sailfish can swim at speeds of 60 knots.  
How fast can they swim in mph? 69.1 mph

$60 \times 1.151 = 69.06$
  - The fastest shark is a shortfin mako shark.  
It can swim at speeds of 39 knots.  
How many miles per hour is this? 44.9 mph

$39 \times 1.151 = 44.889$
  - A K222 submarine could reach speeds of 44.7 knots.  
How many mph is this? 51.4 mph

$44.7 \times 1.151 = 51.4497$
  - The Spirit of Australia is the world's fastest boat, managing to reach an estimated speed of 300 knots.  
How many mph is this? 345.3 mph

$300 \times 1.151 = 345.3$
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