



PROBLEM SOLVING - WHALES (Standard units)

Whales are the largest and heaviest creatures on our planet. Here are some facts about them.

WHALE	AVERAGE MASS (lb)	ORDER OF MASS	AVERAGE LENGTH (ft)	ORDER OF LENGTH
Blue Whale	242,500	1	83.7	1
Bowhead Whale	120,000		49.2	
Fin Whale	125,500			
Gray Whale			44.3	
Humpback Whale	64,000		44.3	
Right Whale	128,000		50	
Sei Whale	49,500			
Sperm Whale	69,000		43.5	

- 1) The Fin Whale is 16.1ft shorter than the Blue Whale. The Sei Whale is 4.3ft longer than the Gray Whale. Fill in the length for the Fin Whale and the Sei Whale.
- 2) The Gray Whale is 26,000 lb lighter than the Sperm Whale. Fill in the weight for the Gray Whale.
- 3) Fill in the order of mass for the whales using the numbers from 1 to 8, (1=heaviest, 8=lightest).
- 4) Fill in the order of length for the whales (1=longest, 8=shortest).
- 5) How much heavier is the Bowhead Whale than the Sei Whale?
- 6) How much shorter is the Sperm Whale than the Blue Whale?
- 7) Tyger says "The average mass of the Blue Whale is more than the mass of the 4 lightest whales put together." Is he correct?
- 8) Roughly how many times heavier is the Blue Whale than the Sei Whale?





PROBLEM SOLVING – WHALES ANSWERS

(Standard Units)

WHALE	AVERAGE MASS (lb)	ORDER OF MASS	AVERAGE LENGTH (ft)	ORDER OF LENGTH
Blue Whale	242,500	1	83.7	1
Bowhead Whale	120,000	4	49.2	4
Fin Whale	125,500	3	67.6	2
Gray Whale	43,000	8	44.3	6
Humpback Whale	64,000	6	44.3	7
Right Whale	128,000	2	50	3
Sei Whale	49,500	7	48.6	5
Sperm Whale	69,000	5	43.5	8

- 1) The Fin Whale is 16.1ft shorter than the Blue Whale. The Sei Whale is 4.3ft longer than the Gray Whale. Fill in the length for the Fin Whale and the Sei Whale.
- 2) The Gray Whale is 26,000 lb lighter than the Sperm Whale. Fill in the weight for the Gray Whale.
- 3) Fill in the order of mass for the whales using the numbers from 1 to 8, (1=heaviest, 8=lightest).
- 4) Fill in the order of length for the whales (1=longest, 8=shortest).
- 5) How much heavier is the Bowhead Whale than the Sei Whale? **70,500 lb**
- 6) How much shorter is the Sperm Whale than the Blue Whale? **40.2ft**
- 7) Tyger says “The average mass of the Blue Whale is more than the mass of the 4 lightest whales put together.” Is he correct? **Blue = 242,500 lb.**
Gray + Sei + Humpback + Sperm whales = 225,500 lb. Yes - he is correct.
- 8) Roughly how many times heavier is the Blue Whale than the Sei Whale? **5 times**
(242,500 ÷ 49,500 = 4.899)

