



PROBLEM SOLVING - WHALES (Metric units)

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

WHALE	AVERAGE MASS (kg)	ORDER OF MASS	AVERAGE LENGTH (m)	ORDER OF LENGTH
Blue Whale	110,000	1	25.5	1
Bowhead Whale	54,500		15	
Fin Whale	57,000			
Gray Whale			13.5	
Humpback Whale	29,000		13.5	
Right Whale	58,000		15.25	
Sei Whale	22,500			
Sperm Whale	31,250		13.25	

- 1) The Fin Whale is 4.9m shorter than the Blue Whale. The Sei Whale is 1.3m longer than the Gray Whale. Fill in the length for the Fin Whale and the Sei Whale.
- 2) The Gray Whale is 11,750kg 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 right?
- 8) Roughly how many times heavier is the Blue Whale than the Sei Whale?





PROBLEM SOLVING – WHALES ANSWERS (Metric)

WHALE	AVERAGE MASS (kg)	ORDER OF MASS	AVERAGE LENGTH (m)	ORDER OF LENGTH
Blue Whale	110,000	1	25.5	1
Bowhead Whale	54,500	4	15	4
Fin Whale	57,000	3	20.6	2
Gray Whale	19,500	8	13.6	6
Humpback Whale	29,000	6	13.5	7
Right Whale	58,000	2	15.25	3
Sei Whale	22,500	7	14.8	5
Sperm Whale	31,250	5	13.25	8

- 1) The Fin Whale is 4.9m shorter than the Blue Whale. The Sei Whale is 1.3m longer than the Gray Whale. Fill in the length for the Fin Whale and the Sei Whale.
- 2) The Gray Whale is 11,750kg 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? **32,000kg**
- 6) How much shorter is the Sperm Whale than the Blue Whale? **12.25m**
- 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 = 110,000kg.**
Gray + Sei + Humpback + Sperm whales = 102,250 kg. Yes - he is correct.
- 8) Roughly how many times heavier is the Blue Whale than the Sei Whale? **5 times**
(110,000 ÷ 22,500 = 4.888)

