

Magnitude Measures

Directions: Solve the problems below to find out the approximate heights, lengths, and weights of different dinosaurs. Then complete the graphs on the pages 14 and 15 to compare the height and weight of several dinosaurs to the height and weight of automobiles and people. Make a poster board graph with a group of other students to show the dinosaurs' weights compared to the weight of an elephant.

Dinosaur Measurements: Height and Length

	<i>Height</i>	<i>Length</i>
Tyrannosaurus	$900 \div 45 = \underline{\hspace{2cm}}$ feet tall	$3250 \div 65 = \underline{\hspace{2cm}}$ feet long
Diplodocus	$6744 \div 281 = \underline{\hspace{2cm}}$ feet tall	$1260 \div 14 = \underline{\hspace{2cm}}$ feet long
Stegosaurus	$1152 \div 72 = \underline{\hspace{2cm}}$ feet tall	$625 \div 25 = \underline{\hspace{2cm}}$ feet long
Brachiosaurus	$2772 \div 63 = \underline{\hspace{2cm}}$ feet tall	$2975 \div 35 = \underline{\hspace{2cm}}$ feet long
Coelophysis	$1284 \div 321 = \underline{\hspace{2cm}}$ feet tall	$9860 \div 986 = \underline{\hspace{2cm}}$ feet long
Triceratops	$8640 \div 720 = \underline{\hspace{2cm}}$ feet tall	$7025 \div 281 = \underline{\hspace{2cm}}$ feet long

Dinosaur Measurements: Weight

2,000 pounds=1 ton 1 elephant= 1 ton

- Allosaurus, Spinosaurus, and Parasaurolophus each weighed 8,000 pounds. What do these three dinosaurs weigh all together? These dinosaurs weigh _____ pounds all together. How many elephants would it take to weigh the same as Allosaurus, Spinosaurus, or Parasaurolophus? _____ elephants weigh the same.
- Ankylosaurus, Iguanodon, and Triceratops each weighed 10,000 pounds. What is the weight of Triceratops and Ankylosaurus together? These dinosaurs weigh _____ pounds together. How many elephants would it take to weigh the same as Ankylosaurus, Iguanodon, and Triceratops? _____ elephants weigh the same.
- Apatosaurus weighed 60,000 pounds. How many elephants would it take to weigh the same as Apatosaurus? _____ elephants weighed the same as Apatosaurus.
- Brachiosaurus weighed 160,000 pounds. How many elephants would it take to weigh the same as Brachiosaurus? _____ elephants weigh the same as Brachiosaurus.
- Corythosaurus, Stegosaurus, and Styraeosaurus each weighed 6,000 pounds. How much do all three dinosaurs weigh? All three dinosaurs weigh _____. How many elephants would it take to weigh the same as Corythosaurus, Stegosaurus, or Styraeosaurus? _____ elephants weigh the same.
- Diplodocus weighed 50,000 pounds. How many elephants would it take to weigh the same as Diplodocus? _____ elephants weigh the same as Diplodocus.
- Pachycephalosaurus weighed 2,000 pounds. How many elephants would it take to weigh the same as Pachycephalosaurus? _____ elephants weigh the same as Pachycephalosaurus.
- Tyrannosaurus weighed 2,000 pounds. How many elephants would it take to weigh the same as Tyrannosaurus? _____ elephants weigh the same as Tyrannosaurus.