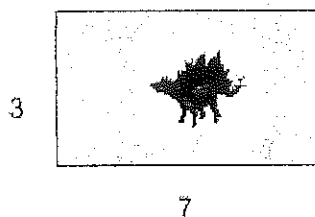


Jurassic World is the Disney World of dinosaurs. There are rides, accommodations, and exhibits where you can get "up close and personal" with a dinosaur. You are in charge of designing the spaces that hold dinosaurs in Jurassic World. Each dinosaur species needs a unique space just for them. You have created scale models of the "cages" but need to come up with the dimensions of the actual real-life cage.

For problems 1-3, use the scale models and scale factor to find the new dimensions. Then find the area and perimeter of each. *use a separate sheet of paper*

1) This is the scale model for the Stegosaurus.

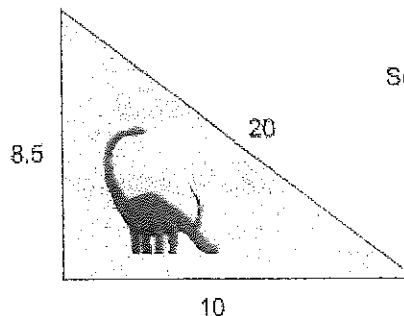
- a) New Dimensions:
- b) Area of model:
- c) Perimeter of model:



Scale Factor = 15

2) This is the scale model for the Brontosaurus.

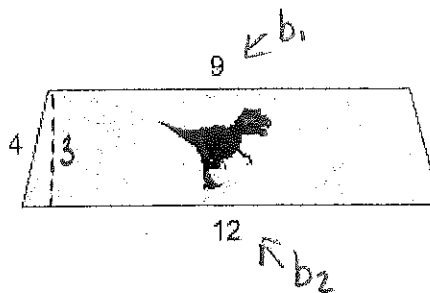
- a) New Dimensions:
- b) Area of model:
- c) Perimeter of model:



Scale Factor = 10

3) This is the scale model for the Tyrannosaurus Rex.

- a) New dimensions:
- b) Area of model:
 $((b_1 + b_2) \times h) \div 2 =$
- c) Perimeter of model:



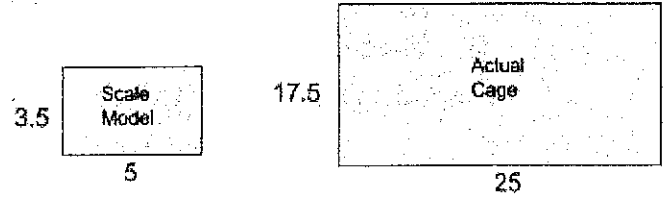
Scale Factor = 7.5

For problems 4-5, find the scale factor from the scale model to the actual cage, and the scale factor from the actual cage, to the scale model.

4) Scale Factor From....

-Scale Model to Actual Cage:

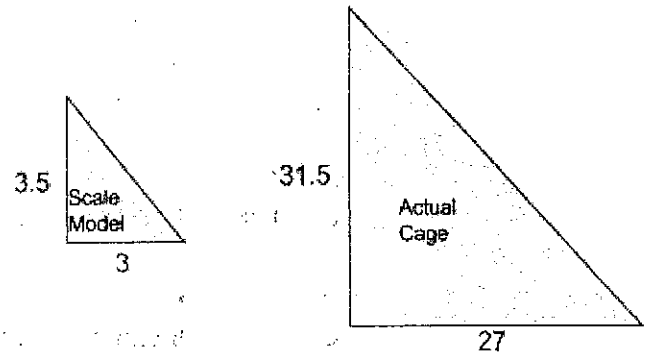
-Actual Cage to Scale Model:



5) Scale Factor From....

-Scale Model to Actual Cage:

-Actual Cage to Scale Model:



Time to get creative! For problem 6, you need to create your own dimensions for a scale model, come up with a scale factor, and find the new dimensions for your actual cage. *Bonus:* Draw your cage below!

6) Scale Model Dimensions:

Scale Factor:

New Dimensions of actual cage: