Grade 7/8 Math Geometry - **Scale Drawing Worksheet**

Cross Multiplication – Word Problems

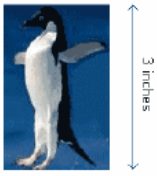
Name: _____ Class: _____ Date: _____

1. The scale of the picture is 1 in : 3 cm. Find the actual length of the Thermos. (4 inches tall)

2. A model of a car was made using a scale of 1 in : 15 in. If the size of car in the model is 8 in, then find the actual length of the car.

3. The scale of the picture shown is 1 cm : 3 in. Find the actual height of the cup. (cup is 2cm)

4. The scale of the picture shown is 1 inch : 10 cm. What would be the actual height of the penguin? (the picture is 3 inches tall)



5. A botany student drew a sketch of a birch tree using a scale of 1 inch : 2 meters. Find the actual height of the tree, if it measures 3 inches in the sketch.

6. A map is drawn using a scale of 1 inch : 4 meters. If the length of a paved path on the map is 16 inches, then find the actual length of the paved path.

7. A model of a dinosaur skeleton was made using a scale of 1 ft : 10 ft in a museum. If the size of the dinosaur's tail in the model is 4 ft, then find its actual length.

8. A map company used a scale of 1 inch : 380 meters to depict the heights of different mountains. What is the height of a mountain on map, which is actually 3420 meters high?

9. A model chair has been designed using a scale 1 inch: 5 inches. The height of the model chair is 4 inches in length. What would be actual height of the chair?

10. The width of a window is 4 inches in an architect's blueprint. If the scale used to draw the blueprint is 1 inch : 1 foot, then what would be the actual width of the window?

11. A model of a cell uses a scale of 1 cm : 10 micrometers. If the nucleus is 1.3 cm, what is the actual measurement of the nucleus?

12. Model trains come in various scales as seen in the picture. If an actual train engine was 23 metres long, how long would it be in HO scale? Give you answer to the nearest cm (round correctly).

Name	G Scale	O Scale	HO Scale	N Scale	Z Scale
Scale	1:22.5	1:48	1:87	1:160	1:220
Gauge	1.75"/45mm	1.25"/31mm	.625"/16mm	.375"/9mm	.25"/6mm