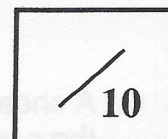
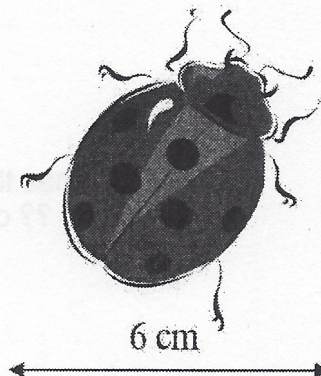


Name: \_\_\_\_\_



## 8.1 – 8.2 Scale Diagrams Enlargements & Reductions Hand-In Worksheet

1. What is the scale factor of the lady bug?



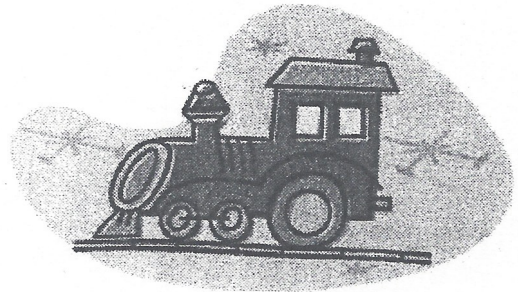
2. A photo has the dimensions of 9 cm by 6cm. The photo will be enlarged by a factor of 4. What are the new dimensions?

3. A photo has the dimensions of 9 cm by 6cm. The photo will be enlarged to a size of 21cm by 14 cm. What is the scale factor?

4. A photo has the dimensions of 44 cm by 36cm. The photo will be reduced by a factor of 4. What are the new dimensions?

5. A sheet on a photocopier is 8.5 by 11 inches. A student sets the photocopier to enlarge the page by 200%. What are the dimensions of the scale diagram?

6. A sheet on a photocopier is 8.5 by 11 inches. A student sets the photocopier to reduce the page by 75%. What are the dimensions of the scale diagram?
7. A photo has the dimensions of 35 cm by 20 cm. The photo will be reduced to a size of 10 cm by ?? cm. What is the scale factor? And find the missing dimension.
8. Here is a picture of a model train. **Measure** the overall length of the train in cm. A real train would have a scale factor of 87. What would be the real length of this train? What would be the diameter of the back wheel?



9. Buzz Lightyear and Woody are scale models of the real thing! Buzz is 9.5 cm tall and Woody is 10.2 cm tall. If they are a scale factor of  $\frac{1}{18}$ , how tall are they in real life?

