

**Proportion Word Problem Quiz**

**Name:**

**Date:**

**I) Circle the correct answer.**

1) A building casts a shadow that is 40 feet long. At the same time Gavin, who is 5 feet tall, casts a shadow 8 feet long. How tall is the building?

- A. 10 feet
- B. 12 feet
- C. 25 feet
- D. 64 feet

2) The wingspan of a particular airplane is 41 feet. A scale model of the airplane is  $\frac{1}{10}$  of the plane's actual size. Which proportion should be used to find the measure,  $w$ , of the model's wingspan?

- A.  $\frac{w}{41} = \frac{10}{1}$
- B.  $\frac{41}{w} = \frac{1}{10}$
- C.  $\frac{w}{41} = \frac{1}{10}$
- D.  $\frac{41}{10} = \frac{1}{w}$

**II.) Answer each question. Show all work.**

3) A company ran a contest in which prizes were revealed under its soda bottle caps. In a case of 24 bottles, 3 had prizes. If the company produced 72,000 bottles of soda a day, how many would you expect to have prizes? Write a proportion that can be used to solve this problem and then solve the problem.

**Proportion** \_\_\_\_\_