

Name \_\_\_\_\_



## Ratio Scale Challenge

**Directions:** Use the scale factor to increase or decrease both quantities while keeping the same ratio.

1. A fruit punch uses 3 cups of orange juice and 2 cups of pineapple juice. Make 4 times as much punch. How many cups of each juice are needed? \_\_\_\_\_
2. A craft kit contains 5 blue beads for every 3 red beads. A larger kit has 20 blue beads. How many red beads should it have? \_\_\_\_\_
3. A trail mix uses 4 cups of cereal for every 2 cups of raisins. Make half as much trail mix. How many cups of each are needed? \_\_\_\_\_
4. A garden has 6 tomato plants for every 5 pepper plants. A larger garden has 18 tomato plants. How many pepper plants should it have? \_\_\_\_\_
5. A classroom prize box has 8 pencils for every 3 erasers. A new box has 4 times as many of each item. How many pencils and erasers are in the new box? \_\_\_\_\_
6. A pet store puts 10 fish in every 4 tanks. A smaller display uses half as many fish and tanks. How many fish and tanks are in the smaller display? \_\_\_\_\_
7. A bakery packs 3 muffins for every 2 cookies in a snack box. For a large order, both quantities are multiplied by 5. How many muffins and cookies are needed? \_\_\_\_\_
8. A game booth gives out 12 stickers for every 6 tickets collected. At the end of the day, the booth uses one-third as many of each. How many stickers and tickets does this represent? \_\_\_\_\_