**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| --- | --- |
| **1. Simplify 3y + 8(y + 4) - 10** | **2. Simplify w + 2x + 3w - 2wx** |
| **3. Simplify 3(x + 7) + 15x - 6** | **4. Simplify 5c + 7x + 8y + 4x + 9y + c** |
| **5. Simplify 4(7 - 2d + 1)** | **6. There are 20 people on a soccer team. The ratio of girls to boys is 1:3. How many girls and boys are on the soccer team?**  **Girls = \_\_\_\_\_\_\_\_\_\_**  **Boys = \_\_\_\_\_\_\_\_\_\_** |
| **7. There are 160 students in the band. If there are 100 boys, what is the ratio of girls to boys, simplified?** | **8. The cost to place an ad in the newspaper is $5.00 for two lines of copy. What is the cost for a five-line ad?** |
| **9. Juan was building a model of a car which had a scale of 1 in = 2 feet. If the length of the model was 7.5 inches, what was the actual length of the car?** | **10. List from least to greatest:**  **8, -2, -5, 5, 0, -11, 1** |
| **11. Mrs. Zhang placed the names of her fifteen students into a box. She has 6 girls in her classroom. What is the fraction of name cards that are boys, simplified?** | **12. Juan and Keith each get a weekly allowance of $15.00. Juan saves ½ of his allowance, and Keith saves ⅕. At the end of four weeks, how much more money will Juan have than Keith?** |
| **13. Lamont’s mother baked a cake for the PTA dinner. Only ¼ of the cake was eaten, so she took the remainder of the cake home to her family. Lamont, his sister, and their father ate ⅔ of what was left. How much of the cake was left at the end of the day?** | **14. Tameka’s room is very unique. It is shaped like a triangle. What is the perimeter and area of Tameka’s room?**  **Perimeter = \_\_\_\_\_\_\_\_\_\_**  **Area = \_\_\_\_\_\_\_\_\_\_** |
| **15. The height of a triangle is 40 in. The base of the triangle is 1 ½ times the height. What is the area of the triangle?** | **Extra Work Space...** |
|  |  |

**Answers:**

1. **11y + 22**
2. **4w + 2x - 2wx**
3. **18x + 15**
4. **6c + 11x + 17y**
5. **32 - 8d**
6. **Girls = 5, Boys = 15**
7. **⅗**
8. **$10**
9. **15 ft.**
10. **-11, -5, -2, 0, 1, 5, 8**
11. **⅗**
12. **$4.50**
13. **⅙**
14. **Perimeter = 44 ft., Area = 100 ft.2**
15. **120**