Simplify all answers and show your work!

1. The decimal point in a whole number is located ________________________________________________.

2. When rounding decimals with money, rounding to the nearest cent is the same as rounding to the
   ______________________________ place.

3. In a number (such as in “one and two tenths”), the term “and” means put in a _________________________.

4. Exponents are a shortcut for repeated ______________________________.

5. Write < or > to make a true statement.
   Justify your answer \[ \frac{15}{28} \quad 3 \quad \frac{3}{5} \]  

6. Simplify: \[ \frac{2}{9} \div \left( \frac{2}{3} - \frac{1}{6} \right) \cdot \frac{15}{16} \]

7. Simplify:
   a) \( \left( \frac{3}{8} \right)^2 \)
   b) \( \sqrt{\frac{64}{25}} \)

8. Write as a fraction in lowest terms:
   a) 0.85
   b) 3.8

9. Round to the nearest cent:
   a) $87.9531
   b) $349.39871

10. Add: 4.68 + 27.3 + 241

11. Subtract: 40 – 29.78

12. Multiply: \( \frac{16}{45} \cdot \frac{30}{36} \)

13. Divide: \( 1\frac{13}{15} \div \frac{4}{5} \)

14. Multiply: \( 5\frac{2}{3} \cdot 4\frac{1}{2} \)

15. Add:
   \[ \frac{47}{8} \]
   \[ + \frac{3}{4} \]

16. Subtract:
   a) \( 8\frac{2}{3} \)
   b) \( -4\frac{7}{8} \)

17. Subtract: \( -2\frac{3}{7} \)

18. Subtract: \( 5 \)
19. By the time Cathy paid off the house she bought in 1969, she had paid $3\frac{1}{2}$ times the original price of the house. If the house originally cost $12,000, how much had she paid for the house by the time it was paid off?

20. Mike bought $8\frac{1}{3}$ acres of land for $200,000. How much did one acre of the land cost?

21. A recipe calls for $3\frac{1}{2}$ cups of flour, $1\frac{2}{3}$ cups of sugar, and $3\frac{3}{8}$ cups of water to be mixed together. How many cups total is this?

22. If 168 pounds of peanuts are packed in $1\frac{3}{4}$-pound bags, how many bags are there altogether?

23. The gasoline mixture currently being sold at many gas stations is $\frac{1}{10}$ ethanol and $\frac{9}{10}$ gasoline. How much ethanol is in $10\frac{1}{2}$ gallons of the mixture?

24. In testing a new drug, doctors found that $\frac{3}{8}$ of the patients given the drug improved, $\frac{2}{5}$ showed no change in their condition, and the rest got worse. What fraction of the patients got worse?

25. Kendra worked 40 hours last week. During that week, she spent $5\frac{2}{3}$ hours in meetings and $6\frac{5}{6}$ hours calling customers. How many hours were left for her to get the rest of her work done?