Name _____

Algebra 1 Honors Summer Assignment

Please do not use a calculator for any of the questions. Write all answers as simplified fractions, when necessary.

Simplify.

1. $\frac{1+2(3^2-1)}{4+5\cdot 2}$

2. $\frac{3+\frac{1}{2}}{2+\frac{3}{4}}$

3. $4(2-7)^2-6+5\cdot 3$

1. _____

2. _____

3. _____

4. A recipe for 12 cookies calls for $1\frac{1}{3}$ cups of milk, $2\frac{1}{2}$ cups of flour, and $1\frac{3}{4}$ cups of other ingredients. How many total cups of ingredients are in the cookies?

4. _____

5. A water tank has a maximum capacity of 84 gallons. If the tank is $\frac{2}{7}$ full, how many gallons of water is in the tank?

5. _____

6. Kerry took $\frac{2}{3}$ of a pie and put It on her plate. She then ate $\frac{1}{4}$ of That piece. How much of the pie did Kerry eat?

7. In her first 18 times at bat, a baseball player walked 8 times. If she continues at the same rate, how many walks will she have after 45 times at bat?

6. _____

7. _____

8. What is 45% of 175?

9. 10 is what percent of 200?

10. 77 is 55% of what number?

8. _____

9. _____

10. _____

Evaluate each expression when x=3, y=-3, and z=2

11. $\frac{xy}{12}$

12. $x^2 - 4y$

13. $z - y + 10x$

11. _____

12. _____

13. _____

Simplify.

14. $4\frac{1}{8} \div 2\frac{3}{4}$

15. $7 - 4\frac{2}{3} - 2\frac{1}{4}$

16. Find $|a - b| + 2c$ if a=-1, b=-3, and c= $-\frac{3}{8}$

14. _____

15. _____

16. _____

17. Put these numbers in order from least to greatest.

$-\frac{17}{25}, -\frac{5}{8}, \frac{1}{4}, \frac{3}{4}, \frac{11}{16}$

18. 36 of 80 marbles are blue. What percent of the marbles are blue?

17. _____

18. _____

19. Solve. $-\frac{3}{4}x = 16$

20. Find $(3a - \frac{1}{3}b - |c|) + a^2$ if a=2, b=3, and c=-9

19. _____

20. _____

Perform the indicated operations. Show all work. Write your answers in decimal form.

21. (-4.29)(.5)

22. (-2.7)(-3)

23. $(-.033) \div (-.04)$

21. _____

22. _____

23. _____

24. $(-16.6) \div (5)$

25. Solve. $-\frac{2}{3} + x = 1\frac{4}{7}$

24. _____

25. _____