Summer Math Work for Incoming 7th Grade

- Show steps for all problems.
- Simplify all fraction answers.
- If you have questions, write your question next to the problem.
- The packet is due on the first day of school.

1. $3.652 - 1.41$	2. $18.06 + 9.798$
3. $8.006 - 6.38$	4. 2.01×0.43
5. 54.1×0.69	6. $59.6 \div 8$
7. Vicky makes jewelry. She uses 42 beads for each necklace that she makes, and she has 500 beads. How many full necklaces can she make?	8. $\frac{1}{5} \times \frac{5}{6}$
9. $3\frac{2}{3} \times 2\frac{3}{4}$	10. $\frac{7}{8} \times 4\frac{1}{6}$

11. $\frac{8}{9} \div \frac{3}{4}$

12. $3\frac{3}{4} \div 2$

13. $2\frac{2}{3} \div 3\frac{1}{4}$

14. On a recent trip, Jeremy and Frank drove 790 miles on $33\frac{1}{3}$ gallons of gas. How many miles per gallon did their car get on this trip?

15. Luisa bought $2\frac{1}{2}$ pounds of apples, $3\frac{3}{8}$ pounds of oranges, and $1\frac{1}{4}$ pounds of pears. How many pounds of fruit did she buy in all?

16. Marie is creating a cross-stitch pattern with rectangles all the same size. What is the perimeter of each rectangle with sides of lengths $\frac{3}{4}$ inch and $\frac{2}{3}$ inch?

17. Neil spends $1\frac{1}{4}$ hours washing the car and $2\frac{5}{8}$ hours weeding the yard. How many total hours does he spend on his chores?

18. Using the information from the previous problem, how much longer does Neil spend weeding than washing the car?

19. Find the Greatest Common Factor for 45 and 60.

20. Find the Greatest Common Factor for 14 and 28.

21. Find the Least Common Multiple for 3 and 4.

22. Find the Least Common Multiple for 4 and 9.

23. Evaluate: $5^2 - 9 \div 3$

24. Evaluate: $8 + 6 - 2 \times 2 - 3^2$

25. Evaluate: $4^2 \div [(3.2 \times 2) + 1.6]$

26. Evaluate the algebraic expression when $a = \frac{1}{3}$, $b = 9$, $c = 5$, $d = 10$

$$5d \div c + 2$$

27. Evaluate the algebraic expression when $a = \frac{1}{3}$, $b = 9$, $c = 5$, $d = 10$

$$\frac{1}{2}d + c^2 - b$$

28. Evaluate the algebraic expression when $a = \frac{1}{3}$, $b = 9$, $c = 5$, $d = 10$

$$12a + c - b$$