

Name: _____

Date: _____

Villa Victoria Academy

Summer Assignment: Advanced Pre-Algebra

Show your work for each question. Calculators are NOT permitted. Please complete over the summer and then hand it in on the first day of school.

1. Write a decimal for the given words: thirteen and one hundred thirteen ten-thousandths.

2. Write $\frac{25}{70}$ in simplest form.

3. Write 4.032 in words.

For exercises 4-7, write each mixed number as an improper fraction.

4. $2\frac{3}{8}$

5. $12\frac{1}{2}$

6. $3\frac{2}{11}$

7. $5\frac{5}{16}$

For exercises 8-9, write each improper fraction as a mixed number.

8. $\frac{8}{3}$

9. $\frac{45}{7}$

For exercises 10-13, use <, >, or = to compare.

10. 1,206 _____ 121

11. 13,254 _____ 13,524

12. 1.5234 _____ 15.234

13. 2.16 _____ 2.160

For exercises 14-15, order the numbers from least to greatest.

14. 33,457; 34,674; 33,687; 34,328; 32,963

15. 5.013; 5.103; 5.301; 5.310; 5.031

For exercises 16-19, round to the place value of the underlined digit.

16. 3,219 _____

17. 4.1234 _____

18. 3.6972 _____

19. 14.04721 _____

For exercises 20-23, find each sum or difference.

20. $15.623 + 7.3953 =$

21. $12.932 - 3.392 =$

22. $386.7 + 0.85 =$

23. $32.589 - 15.0029 =$

For exercises 24-33, find each product or quotient.

24. $34 \times 458 =$

25. $341,502 \div 346 =$

26. $1.23 \times 4 =$

27. $1518.75 \div 243 =$

28. $32.5 \cdot 7 =$

29. $0.567 \div 10 =$

30. $0.89 \times 0.6 =$

31. $0.245 \div 0.98 =$

$$32. 1.008 \cdot 0.003 =$$

$$33. 0.0040761 \div 0.063 =$$

For exercises 34-35, find the missing number.

$$34. \frac{11}{3} = \frac{\quad}{39}$$

$$35. \frac{6}{7} = \frac{18}{\quad}$$

For exercises 36-39, find each sum or difference. Write each answer in simplest form.

$$36. \frac{5}{8} + \frac{7}{8} =$$

$$37. \frac{11}{12} - \frac{5}{12}$$

$$38. 2\frac{2}{7} + 1\frac{5}{7} =$$

$$39. 5\frac{3}{8} - 1\frac{5}{8} =$$

For exercises 40-43, find each product or quotient. Write each answer in simplest form.

$$40. \frac{2}{3} \cdot \frac{5}{8} =$$

$$41. \frac{3}{5} \div \frac{7}{10} =$$

$$42. 4\frac{2}{5} \cdot 2\frac{1}{2} =$$

$$43. \frac{8}{9} \div 1\frac{1}{3} =$$

For exercises 44-47, write an integer for each situation.

44. 8 steps up _____

45. 7 steps backward _____

46. 15 degrees above 0 _____

47. a loss of \$5 _____

For exercises 48-50, use <, >, or = to compare.

48. 0 _____ -2

49. -9 _____ 3

50. -7 _____ -8