

Name _____

Summer Mathematics Assignment
Algebra I Part 1 Students

1. This is your summer assignment if you are taking Algebra I Part 1 during the 2010-2011 school year.

2. A. Do all of your work in the space provided. If you need additional space to complete a solution you may use an additional sheet. Be sure to write the **number** of the problem on that paper.

B. Hand in this packet and any additional sheets to your teacher at our first class session.

C. DO NOT USE A CALCULATOR

3. This assignment will count as a 50 point quiz. For each day late, you will lose 2 points from the quiz grade.

If you have any questions, please contact Mrs. Shrager at jshrager@jbha.org

1. In the number 123,456 which digit is in the thousands place?

2. In the number 0.123456 which digit is in the ten-thousandths place?

3. Subtract. Show borrowing

$$\begin{array}{r} 84,125 \\ - 36,952 \\ \hline \end{array}$$

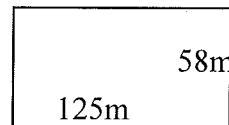
4. Multiply. Show your work.

$$\begin{array}{r} 237 \\ \times 85 \\ \hline \end{array}$$

5. Divide; show work

$$37 \overline{)3182}$$

6. A rectangular yard measures 58 m by 125 m. What is the area of the yard? Show work.



7. A box contains 80 oz of salt. How many shakers of salt can be filled from the box if each container holds 3 oz of salt? How much salt is left over? Show work.

8. A flashlight costs \$8 and a package of batteries costs \$6. How much do 6 flashlights and 5 packages of batteries cost? Show work.

9. Write in exponential notation

$$5 \cdot 5 \cdot 5 \cdot 5 \cdot 5$$

10. An open cardboard box is 10 in wide, 12 in long and 3 in high. Find the volume of the box. Show work.

Fill in the \square with $<$ or $>$ to make a true sentence.

11. $3^2 \square 2^3$

12. $0.009 \square 0.01$

13. $\frac{31}{8} \square 3\frac{5}{8}$

Perform the indicated operation. Simplify, if possible. Show work.

14. $\frac{3}{4} \cdot \frac{8}{9}$

15. $\frac{5}{6} \div \frac{2}{3}$

16. $30 \div 1\frac{2}{3}$

Change to mixed numbers.
Simplify if possible.

17. $\frac{51}{12}$

18. $\frac{113}{7}$

State the reciprocal.

19. $6\frac{4}{9}$

Multiply and simplify

20. $\frac{4}{15} \cdot \frac{25y}{6xy}$

21. Find the LCM of 15 and 18.

Perform the indicated operation and, if possible, simplify. Show work.

22. $\frac{7}{8} - \frac{3}{4}$

23. $\frac{7}{8} + \frac{5}{8}$

24. $\frac{9}{7} - \frac{3}{14}$

Perform the indicated operation. Write a mixed number for the answer. Show work.

25.

$$\begin{array}{r} 3\frac{3}{4} \\ +2\frac{5}{8} \\ \hline \end{array}$$

26.

$$\begin{array}{r} 7\frac{3}{8} \\ -4\frac{1}{2} \\ \hline \end{array}$$

27. Write the mixed number as an improper fraction. $4\frac{6}{7}$

28. Round 8.5976 to the nearest tenth

29. Round 8.5976 to the nearest hundredth

Perform the indicated operation. Show your work!! (no calculator!!)

30. $54.8 + 6.9 + 8.27$

31. $14.5 - 8.73$

32. $54 - 24.92$

Multiply. Show your work. No calculator.

33. $\begin{array}{r} 6.45 \\ \times 2.9 \\ \hline \end{array}$

34. $(3.2)(0.2)(1.7)$

Divide. Show work. NO Calculator

35.

$$34 \overline{)53.04}$$

36.

$$5.6 \overline{)19.04}$$

Write in decimal notation

37. 74%

38. 3.2%

39. 310%

Write in percent notation.

40. 0.123

41. $\frac{12}{16}$

42. 0.3

Solve each problem; show work; NO calculator!!

43. Find 12% of 75

44. What percent of 40 is 32?

45. Find 7% of 182

Find the value of each of the following:

46. $-6 + (-7) + 5$

47. $-11 - (-3)$

48. Multiply: $-5(3)(-2)$

49. Divide $\frac{-18}{-3}$

50. Simplify: $3 + 4(8 - 3)$