GOLDEN STATE BAPTIST COLLEGE
GENERAL MATHEMATICS PLACEMENT TEST

Arithmetic

1. What is the sum of sixteen thousand nine; twenty thousand eight hundred six; forty-two; and five hundred five? ________________________________

2. 
   59,007  
   7,024  
   7,100  
   + 108  
   ________________________________

3. 45.00  
   - 4.76  
   ________________________________

4. 8.41  
   x 101  
   ________________________________

5. $1.25 \div 8.25 = $ ________________________________

6. 4 divided by .005 = ________________________________

7. What number multiplied by 8 gives you 96? ________________________________

8. If a train travels at an average speed of 60 miles per hour, how far has it traveled in 14 hours? ________________________________

9. If a rope is 288 inches long, how many yards long is that rope? __________

10. A bus traveling at 50 mph reaches its destination in 3 ½ hours, how far has it gone? ________________________________
Fractions, Decimals, and Percents

11. Convert the fraction into a decimal (up to 3 decimal places): \( \frac{5}{8} = \) __________

12. Convert the decimal into a fraction and reduce: \( 0.6 = \) __________

13. Add the fractions and reduce: \( \frac{5}{8} + \frac{3}{4} = \) __________

14. Subtract fractions and reduce: \( \frac{13}{12} - \frac{2}{3} = \) __________

15. Multiply fractions and reduce: \( \frac{3}{5} \times \frac{1}{2} = \) __________

16. Divide fractions and reduce: \( 1 \frac{1}{4} \div \frac{3}{4} = \) __________

17. How many strips of wood \( \frac{3}{8} \) of an inch wide can be sawed off a 4 foot piece of wood?

18. Liz bought \( 12 \frac{1}{3} \) yards of material. She used \( 3 \frac{1}{4} \) yards for a skirt and \( 4 \frac{1}{8} \) yards for a dress. How much is left?

19. Convert the fraction to a percent: \( \frac{7}{20} = \) __________

20. Convert .037 into a percent. __________

21. Convert 5.27 into a percent. __________

22. Your bill for dinner came to $30. How much tip would you leave if you tipped 15%?

23. If your pay was cut from $20 per hour to $16 per hour by what percentage did your pay decline?

24. What’s the simple interest on $15,000 for 3 years at an annual rate of 6%?

25. All shoes are 30% off at your favorite store. What’s the new price for a $69 pair of shoes?

26. Add sales tax of 9 ¼ % to the answer in #25 and compute the total cost of the shoes.

27. What is cheaper, to buy a book on-line for $19 plus $5 shipping without tax or to buy it at the local store where it’s listed at $20 plus 9.25 % tax? __________

28. What is the difference between the price online and the price in the store in question #27?
Negative Numbers

29. 11 + (-23) = ______________
30. -5 + (-19) = ______________
31. 19 – (-6) = ______________
32. -5 x 7 = ______________
33. -12 x (-3) = ______________
34. -24 ÷ 3 = ______________
35. -28 ÷ (-7) = ______________

Algebra

36. Solve for x: -32/x = 4 _______________
37. Solve for x: 4x – 6 + 22 = 0 _______________

Miscellaneous Word Problems

38. How much farther would you get if you drove at 65 mph instead of 55 mph for a half hour? _______________
39. If you took three exams and scored 93, 66, and 78 points, what would be your average score? _______________
40. How many degrees are in a circle? _______________
41. What’s the length of a rectangular lot with an area of 2,400 sq ft and a width of 40 ft? _______________
42. A gallon of gasoline sells for $2.90 but costs the dealer $2.54, how much profit will a dealer make if he sells 2000 gallons? _______________

English Units

43. What is the ratio of hours to seconds? Please answer in ratio form. ______________
44. What is the ratio of quarts to ounces? Please answer in ratio form. ______________
45. What is the ratio of quarts to gallons? Please answer in ratio form. ______________
46. What is the ratio of inches per yard? Please answer in ratio form. ______________
Squares

47. $14^2 = \underline{\hspace{2cm}}$

48. $\left(\frac{1}{3}\right)^2 = \underline{\hspace{2cm}}$

49. What is the square root of 49? ___________________

50. What is the square root of $x^2$? ___________________