

Name (Print) \_\_\_\_\_ **KEY** \_\_\_\_\_

## 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?     **37,362**
  
2. 
$$\begin{array}{r} 59,007 \\ 7,024 \\ 7,100 \\ + \quad 108 \\ \hline \end{array}$$
    **73,239**
  
3. 
$$\begin{array}{r} 45.00 \\ - 4.76 \\ \hline \end{array}$$
    **40.24**
  
4. 
$$\begin{array}{r} 8.41 \\ \times 101 \\ \hline \end{array}$$
    **849.41**
  
5.  $1.25 \overline{)8.25} =$     **6.6**
  
6. 4 divided by .005 =     **800**
  
7. What number multiplied by 8 gives you 96?     **12**
  
8. If a train travels at an average speed of 60 miles per hour, how far has it traveled in 14 hours?  
    **840 miles**
  
9. If a rope is 288 inches long, how many yards long is that rope?     **8 yds.**
  
10. A bus traveling at 50 mph reaches its destination in  $3\frac{1}{2}$  hours, how far has it gone?  
    **175 miles**

### Fractions, Decimals, and Percents

11. Convert the fraction into a decimal (up to 3 decimal places):  $5/8 =$  .625
12. Convert the decimal into a fraction and reduce:  $0.6 =$   $3/5$
13. Add the fractions and reduce:  $5\frac{1}{8} + 2\frac{3}{4} =$   $7\frac{7}{8}$
14. Subtract fractions and reduce:  $13\frac{7}{12} - 5\frac{2}{3} =$   $7\frac{11}{12}$
15. Multiply fractions and reduce:  $3\frac{1}{5} \times 7\frac{1}{2} =$  24
16. Divide fractions and reduce:  $1\frac{1}{4} \div \frac{3}{4} =$   $1\frac{2}{3}$  or  $5/3$
17. How many strips of wood  $3/8$  of an inch wide can be sawed off a 4 foot piece of wood?  
128
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?  $119/24$  or  $4\frac{23}{24}$
19. Convert the fraction to a percent:  $\frac{7}{20} =$  35%
20. Convert .037 into a percent. 3.7%
21. Convert 5.27 into a percent. 527%
22. Your bill for dinner came to \$30. How much tip would you leave if you tipped 15%?  
\$4.50
23. If your pay was cut from \$20 per hour to \$16 per hour by what percentage did your pay decline? 20%
24. What's the simple interest on \$15,000 for 3 years at an annual rate of 6%?  
\$2,700
25. All shoes are 30% off at your favorite store. What's the new price for a \$69 pair of shoes?  
\$48.30
26. Add sales tax of  $9\frac{1}{4}\%$  to the answer in #25 and compute the total cost of the shoes.  
\$52.77
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? local store
28. What is the difference between the price online and the price in the store in question #27?  
\$2.15

## Negative Numbers

29.  $11 + (-23) =$  -12
30.  $-5 + (-19) =$  -24
31.  $19 - (-6) =$  25
32.  $-5 \times 7 =$  -35
33.  $-12 \times (-3) =$  36
34.  $-24 \div 3 =$  -8
35.  $-28 \div (-7) =$  4

### Algebra

36. Solve for x:  $-32/x = 4$  -8
37. Solve for x:  $4x - 6 + 22 = 0$  -4

### Miscellaneous Word Problems

38. How much farther would you get if you drove at 65 mph instead of 55 mph for a half hour?  
5 miles
39. If you took three exams and scored 93, 66, and 78 points, what would be your average score?  
79
40. How many degrees are in a circle? 360°
41. What's the length of a rectangular lot with an area of 2,400 sq ft and a width of 40 ft?  
60 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? \$720

### English Units

43. What is the ratio of hours to seconds? Please answer in ratio form. 1:3600
44. What is the ratio of quarts to ounces? Please answer in ratio form. 1:32
45. What is the ratio of quarts to gallons? Please answer in ratio form. 4:1
46. What is the ratio of inches per yard? Please answer in ratio form. 36:1

### Squares

47.  $14^2 =$  196

48.  $\left(\frac{1}{3}\right)^2 =$  1/9

49. What is the square root of 49? 7

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

Sample