

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