

Study Guide – Pretest

1. $371 + 614 =$
 - a. 886
 - b. 986
 - c. 985
 - d. 885
2. $4257 + 9368 =$
 - a. 13,615
 - b. 13,625
 - c. 12,615
 - d. 12,625
3. $12,817 + 6,955 =$
 - a. 18,772
 - b. 18,762
 - c. 19,762
 - d. 19,772
4. $7,538 - 2,417 =$
 - a. 4,021
 - b. 5,021
 - c. 4,121
 - d. 5,121
5. $735 - 587 =$
 - a. 158
 - b. 148
 - c. 248
 - d. 258
6. $8,015 - 2,707 =$
 - a. 5,308
 - b. 5,318
 - c. 6,308
 - d. 6,318
7. $523 * 63 =$
 - a. 31,949
 - b. 32,949
 - c. 32,849
 - d. 31,849
8. $623 * 7 =$
 - a. 4,241
 - b. 4,341
 - c. 4,361
 - d. 4,261
9. $703 * 26 =$
 - a. 17,268
 - b. 17,278
 - c. 18,278
 - d. 18,268
10. $936 / 6 =$
 - a. 156
 - b. 156 r3
 - c. 153
 - d. 153 r3
11. $507 / 7 =$
 - a. 71 r5
 - b. 68 r5
 - c. 72
 - d. 72 r3
12. $14,448 / 56 =$
 - a. 367
 - b. 267
 - c. 358
 - d. 258
13. Express $68/1000$ as a decimal
 - a. 6.8
 - b. 0.068
 - c. 0.68
 - d. 0.0068
14. $.23 + 1.5 + .002 =$
 - a. 1.75
 - b. 1.732
 - c. 1.352
 - d. 1.372

15. $.17 * .23 =$
 a. .0391
 b. .391
 c. 391
 d. 3.91
16. $.7 / .04$ is equal to
 a. .0175
 b. .175
 c. 1.75
 d. 17.5
17. Express the hundredths place in .8951
 a. 8
 b. 9
 c. 5
 d. 1
18. $0.72 - 0.57 =$
 a. 2.5
 b. .25
 c. .15
 d. 1.5
19. Round off 3.345 to the nearest tenth
 a. 3.35
 b. 3.3
 c. 3.34
 d. 3.4
20. Which is the equivalent decimal number for three hundred and ten thousandths?
 a. 0.031
 b. 0.310
 c. 3.1
 d. 0.0031
21. $1 \frac{1}{3} + 2 + \frac{3}{4} =$
 a. $4 \frac{1}{12}$
 b. $5 \frac{1}{12}$
 c. $4 \frac{2}{3}$
 d. $4 \frac{1}{6}$
22. $2 \frac{1}{6} - 1 \frac{1}{8} =$
 a. $1 \frac{1}{24}$
 b. $1 \frac{1}{12}$
 c. $\frac{7}{8}$
 d. $\frac{1}{3}$
23. $2 \frac{1}{2} * 3 \frac{1}{3} * 1 \frac{1}{5} =$
 a. $6 \frac{1}{6}$
 b. $6 \frac{1}{30}$
 c. $6 \frac{1}{5}$
 d. 10
24. $\frac{1}{4} / \frac{2}{3} =$
 a. $\frac{1}{6}$
 b. $\frac{3}{8}$
 c. $\frac{1}{3}$
 d. $1 \frac{1}{8}$
25. Which of the following is correct?
 a. $\frac{1}{3} = \frac{2}{5}$
 b. $\frac{1}{4} = \frac{9}{12}$
 c. $\frac{2}{3} = \frac{8}{12}$
 d. $\frac{3}{5} = \frac{15}{40}$
26. Solve for N in the following:
 $\frac{N}{3} = \frac{6}{9}$
 a. $N = 1$
 b. $N = 3$
 c. $N = 2$
 d. $N = 4$
27. Reduce $\frac{13}{78}$ to lowest terms.
 a. $\frac{2}{7}$
 b. $\frac{1}{6}$
 c. $\frac{8}{5}$
 d. $\frac{1}{4}$
28. Express $\frac{27}{7}$ as a mixed fraction
 a. $3 \frac{5}{7}$
 b. $3 \frac{6}{7}$
 c. $4 \frac{1}{7}$
 d. 4

29. Express two hundredths as a percentage
a. 20%
b. .2%
c. .02%
d. 2%
30. 60% of 180 =
a. 150
b. 388
c. 108
d. 120
31. 7 is what percent of 28?
a. 20%
b. 25%
c. 75%
d. 40%
32. 9 is what percent of 27?
a. 25%
b. 40%
c. 33%
d. 20%
33. Two tenths of fifty equals;
a. 10
b. 100
c. 20
d. 25
34. .3% of 60 =
a. 20
b. 1.8
c. 18
d. .18
35. The ratio of 2 to 5 = (?)%
a. 10
b. 40
c. 4
d. .1
36. $\frac{3}{16} = (?)\% * \frac{3}{4}$
a. 20
b. 25
c. 15
d. 10
37. Express $\frac{3}{8}$ as a decimal.
a. 0.24
b. 0.025
c. 0.375
d. 0.32
38. Express 0.18 as a percentage.
a. 18%
b. 1.8%
c. 0.18%
d. .0018%
39. Express $\frac{25}{5}$ as a percentage.
a. 500%
b. 50%
c. 5%
d. .05%
40. Express $\frac{4}{5}$ as a percentage.
a. 2%
b. .08%
c. 80%
d. 8%
41. $5.5/20\% = ?$
a. 1.1
b. 2.75
c. 27.5
d. .11
42. Express 0.012 as a percentage.
a. 0.12%
b. 12%
c. 1.2%
d. 120%

43. Express the ratio of 12:30 as a percentage.
a. 2.5%
b. 250%
c. .25%
d. 40%
44. Express $12/36$ as a percentage.
a. 33.3%
b. .333%
c. 3%
d. .3%
45. Express 37.5% as a common fraction.
a. $4/9$
b. $5/18$
c. $3/11$
d. $3/8$
46. Express 420% as a decimal
a. .042
b. 42
c. .420
d. 4.2
47. Solve for x: 50 is 20% of x
a. $X = 200$
b. $X = 150$
c. $X = 250$
d. $X = 300$
48. $7\frac{2}{5}\%$ of x is equal to 74. Solve for x.
a. $x = 50$
b. $x = 1000$
c. $x = 100$
d. $x = 500$
49. Express 25% as a reduced common fraction.
a. $25/100$
b. $4/16$
c. $\frac{1}{4}$
d. $10/40$
50. Express 30% as a decimal.
a. 3000
b. .003
c. 3.0
d. 0.3
51. 4 is 25% of x. Solve for x.
a. $x = 16$
b. $x = 24$
c. $x = 12$
d. $x = 36$
52. 48% of $x = 60$. Solve for x.
a. 175
b. 230
c. 125
d. 120
53. $6a + 3a - 4a =$
a. $13a$
b. $-5a$
c. $5a$
d. $9a$
54. $(x^2 + 3x) - (x^2 + 2x + 3) =$
a. $x - 3$
b. $2x^2 + 5x + 3$
c. $5x + 3$
d. $x + 3$
55. $2y + 5 = 27$. Solve for y.
a. $y = 12$
b. $y = 11$
c. $y = 16$
d. $y = 8$
56. $2(x+1) = 3x - 1$
a. $5x = 3$
b. $x = 8$
c. $x = 2$
d. $x = 3$

57. $6bx^2 - 3bx^2 =$
- a. $3bx^2$
 - b. $-3bx^2$
 - c. $9bx^2$
 - d. $-9bx^2$
58. $6(t + 3) + 8 - 5(t+2) =$
- a. $2t + 36$
 - b. $t + 16$
 - c. $t + 36$
 - d. $t + 13$
59. $3x - 4 = 8$ Solve for x
- a. $x = 2$
 - b. $x = 3$
 - c. $x = 4$
 - d. $x = 5$
60. $5m + 8 = 3(m + 4)$ Solve for m.
- a. $m = -2$
 - b. $m = 4$
 - c. $m = 3$
 - d. $m = 2$