

Name:
Date:

Pre-Algebra
Practice Test #1

- 1) Simplify: $72,409 + 4,597 + 830,856 + 245 + 2,305,241$
- 2) Subtract 43,892 from 87,109
- 3) Multiply 687 by 8,794
- 4) Divide 624,138 by 696
- 5) Divide 254.71 by 6.7 (round off the answer to two decimal places)
- 6) Find the prime factorization of 741. If the number is prime, write prime.
- 7) Simplify: $\frac{546}{495} \div \frac{364}{385} \div \frac{231}{714}$
- 8) Simplify: $\frac{5}{156} - \frac{1}{234}$
- 9) Simplify: $-72 \div 8 - |-3 - 3| \div 2 - 3|-1 - 1|^4$
- 10) Gianna plans to buy five shirts that cost \$43 each, eight sweaters that cost \$57 each, and seven pairs of pants that cost \$39 each. What is the total cost?
- 11) Solve: $\frac{182}{x} = \frac{273}{55}$
- 12) Change $8\frac{3}{4}\%$ into a fraction
- 13) Simplify: $9\frac{3}{8} \cdot 4\frac{4}{15} \cdot 1\frac{1}{24}$
- 14) Change $\frac{1}{32}$ into a percent
- 15) Kristin's bank balance at the beginning of the week was \$687.64. She wrote checks for \$204.29, \$62.82, \$138.45, \$107.48, and \$5.57 during the week. She deposited \$236.09 at the end of the week. What is Kristin's new balance?

16) Find 0.7% of 680

17) Simplify: $2^3 + \sqrt[5]{243} - 3^2 - 4(-1-3) - 7^0 + 18 \div 9(-1-1)$

18) Simplify: $\frac{\frac{144}{98}}{\frac{108}{686}}$

19) Change $9\frac{11}{32}$ into a decimal

20) What is the cost of $7\frac{1}{3}$ yards of lace at \$7.79 per yard? (round off your answer to the nearest cent if necessary)

21) Simplify $\frac{\frac{1}{54} + \frac{5}{48}}{\frac{7}{45} - \frac{48}{80}}$

22) Simplify $\sqrt[3]{729} - (-1-2)^3 - 8^0 - 20 \div 5(-2-2)$

23) Simplify: $4 \div 0$

24) Convert 90 MPH into yards per second

25) Simplify: $\sqrt[3]{4913}$

EXTRA CREDIT

26) Solve: $-3^2 - 2(3x-1) + 18 \div 9(-1-1) - 3x = \sqrt[4]{81} - 5(2x-3) + 2^3 - (-3-1) - 4x$

Answer Key – Practice Test

- 1) 3,213,348
 - 2) 43,217
 - 3) 6,041,478
 - 4) 896 R522 or 896.75
 - 5) 38.02
 - 6) $3 \cdot 13 \cdot 19$
 - 7) $\frac{119}{33}$
 - 8) $\frac{1}{36}$
 - 9) -60
 - 10) \$944
 - 11) $x = \frac{110}{3}$
 - 12) $\frac{7}{80}$
 - 13) $\frac{125}{3}$ or $41\frac{2}{3}$ or $41.\bar{6}$
 - 14) 3.125%
 - 15) \$405.12
 - 16) 4.76 or $\frac{119}{25}$
 - 17) 13
 - 18) $\frac{28}{3}$
 - 19) 9.34375
 - 20) \$57.13
 - 21) $\frac{265}{201}$
 - 22) 51
 - 23) Undefined
 - 24) 44 yards per second
 - 25) 17
- Extra Credit
- 26) $x = \frac{41}{5}$