

**Drug Dosage Calculations for Nurses**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Basic Math Diagnostic Exam**

Score \_\_\_\_\_

**INSTRUCTIONS:** Solve the following problems. Reduce all fractions to the lowest terms. Show all work in the space provided. Write your answer on the answer line.

Questions 1 – 20 are worth 4 points each. Questions 21 – 30 are worth 2 points each.

**ADDITION:**

1.  $121 + 5 + 4,795 + 12 + 13,274 =$

\_\_\_\_\_

2.  $34.88 + 3640 + 7 + 0.41 =$

\_\_\_\_\_

3.  $46 + 0.3053 + 973.70 + 3,034.08 =$

\_\_\_\_\_

4.  $18 \frac{2}{9} + \frac{5}{3} + \frac{4}{12} =$

\_\_\_\_\_

5.  $6 \frac{1}{5} + 4 \frac{2}{3} + \frac{1}{2} =$

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**SUBTRACTION:**

6.  $32,363 - 7,895 =$

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7.  $4 - 0.824 =$

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8.  $42.908 - 2.59 =$

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9.  $11 \frac{3}{8} - 4 \frac{6}{10} =$

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10.  $5 \frac{3}{4} - 2 \frac{4}{5} =$

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11.  $3752 \times 406 =$

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12.  $4 \frac{2}{7} \times \frac{1}{2} =$

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13.  $3 \frac{1}{3} \times 1 \frac{5}{6} =$

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14.  $25 \frac{2}{5} \times 5 =$

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15.  $35.005 \times 1.05 =$

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**DIVISION:** Work division problems 3 places to the right of the decimal point. Round the final answer to the hundredths place (2 places to the right of the decimal point).

16.  $452 \div 12 =$  \_\_\_\_\_

17.  $5.60 \div 14 =$  \_\_\_\_\_

18.  $4 \frac{1}{5} \div \frac{1}{75} =$  \_\_\_\_\_

19.  $4 \frac{1}{4} \div 1 \frac{1}{2} =$  \_\_\_\_\_

20.  $2 \frac{1}{5} \div 3 =$  \_\_\_\_\_

**ROMAN NUMERALS:** Change the following to Arabic numbers or Roman numerals.

21. 26 = \_\_\_\_\_      22. 47 = \_\_\_\_\_      23. 90 = \_\_\_\_\_      24. 75 = \_\_\_\_\_

25. 39 = \_\_\_\_\_      26. liv = \_\_\_\_\_      27. MM = \_\_\_\_\_      28. xiii = \_\_\_\_\_

29. vss = \_\_\_\_\_      30. lxxxivss = \_\_\_\_\_