BASIC MATH DIAGNOSTIC EXAM

Name: _____

Date: _____

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. Each question is worth 5 points.*

■ ■ ■ Addition:

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

2. $34.88 + 3{,}640 + 7 + 0.41 =$ _____

3. $46 + 0.3053 + 973.70 + 3034.08 =$ _____

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

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

■ ■ ■ Subtraction:

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

7. $4 - 0.824 =$ _____

8. $42.908 - 2.59 =$ _____

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

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

■ ■ ■ Multiplication:

11. $3{,}752 \times 406 = $ _____

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

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

14. $25\dfrac{2}{5} \times 5 = $ _____

15. $35.005 \times 1.05 = $ _____

■ ■ ■ Division:

Work division problems three places to the right of the decimal point. Round the final answer to the hundredths place (two places to the right of the decimal point).

16. $452 \div 12 =$ _____

17. $5.60 \div 14 =$ _____

18. $4\dfrac{1}{5} \div \dfrac{1}{75} =$ _____

19. $4\dfrac{1}{4} \div 1\dfrac{1}{2} =$ _____

20. $2\dfrac{1}{5} \div 3 =$ _____