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2004 小學數學競賽選拔賽初賽試題

第一試：計算題 (考試時間 1 小時)

請將答案填入答案卷對應題號的空格內，不須計算過程。答案若為分數請化為最簡分數。本題目卷正反面空白處可為作演算草稿紙。每題 5 分，共 100 分

1. $875 \times 56 =$ _____

2. $27 \times 37 \times 97 =$ _____

3. $1\frac{1}{2} \times 1\frac{1}{3} \times 1\frac{1}{4} \times 1\frac{1}{5} \times 1\frac{1}{6} \times 1\frac{1}{7} \times 1\frac{1}{8} \times 1\frac{1}{9} =$ _____

4. $2 - 4 + 6 - 8 + 10 - 12 + \dots - 2000 + 2002 - 2004 + 2006 =$ _____

5. $375 \times 395 \div 27 + 375 \times 145 \div 27 =$ _____

6. $15 \times 19 + 85 \div 19 - 9 \times 19 + 29 \div 19 =$ _____

7. $5678 + 6785 + 7856 + 8567 =$ _____

8. $(8888 + 8886 + 8884 + \dots + 8002) - (2 + 4 + 6 + \dots + 888) =$ _____

9. $8.75 \times 3.83 \times 14 - 125 \times 0.383 \times 1.8 =$ _____

10. $100 \times 99 - 99 \times 98 + 98 \times 97 - 97 \times 96 + \dots + 4 \times 3 - 3 \times 2 + 2 \times 1 =$ _____

$$11. \left(0.5 + \frac{1}{4} + 3\frac{1}{8} \div 1.25\right) \div \left(5\frac{1}{4} - 1.25 \times 1\frac{3}{5}\right) = \underline{\hspace{2cm}}$$

$$12. 1.6 - \frac{2}{3} + 2.25 \div 3\frac{3}{8} = \underline{\hspace{2cm}}$$

$$13. 3\frac{5}{17} + 5\frac{12}{17} \times 0.5 + 0.625 \times 5\frac{12}{17} - 5\frac{12}{17} \times 0.125 = \underline{\hspace{2cm}}$$

$$14. 12345 \div 12345 \frac{12345}{12346} \underline{\hspace{2cm}}$$

$$15. \frac{1}{3 - \frac{1}{3 + \frac{1}{3 - \frac{1}{3}}}} = \underline{\hspace{2cm}}$$

$$16. \frac{1}{3} + \frac{1}{15} + \frac{1}{35} + \frac{1}{63} + \frac{1}{99} = \underline{\hspace{2cm}}$$

$$17. \frac{1}{2004} + \frac{2}{2004} + \frac{3}{2004} + \dots + \frac{2004}{2004} = \underline{\hspace{2cm}}$$

$$18. 1 + 2\frac{1}{6} + 3\frac{1}{12} + 4\frac{1}{20} + 5\frac{1}{30} + 6\frac{1}{42} + 7\frac{1}{56} + 8\frac{1}{72} + 9\frac{1}{90} = \underline{\hspace{2cm}}$$

$$19. \left(3 + \frac{5}{9} - \frac{2}{3}\right) \times \left(\frac{1}{6} + \frac{1}{9} + \frac{1}{12}\right) - \left(\frac{1}{6} - \frac{1}{9} + \frac{1}{12}\right) \times 3 + \left(\frac{1}{6} + \frac{1}{9} + \frac{1}{12}\right) \times \left(\frac{2}{5} - \frac{5}{9}\right) =$$

$$20. \frac{25 - \left(5\frac{1}{3} - 2\frac{5}{6}\right)}{\left(4 - 3.6 \times \frac{2}{3}\right) \div 2\frac{2}{3}} = \underline{\hspace{2cm}}$$