

2005 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. $198 + 2997 + 199 =$ _____

2. $\frac{1}{8} + \frac{2}{9} + \frac{3}{10} + \frac{7}{8} + \frac{7}{9} + \frac{7}{10} =$ _____

3. $125 \times 885 =$ _____

4. $\frac{10 \times 9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1}{7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 \times 3 \times 2 \times 1} =$ _____

5. $640000 \div 125 \div 25 \div 32 =$ _____

6. $1 \div (2 \div 3) \div (4 \div 5) \div (6 \div 7) \div (8 \div 9) \div 10 =$ _____

7. $9 \times 125 \times 127127 - 127 \times 125125 =$ _____

8. $9 + 99 + 999 + 9999 + 99999 =$ _____

9. $1990 + 1991 + \cdots + 2005 =$ _____

10. $1001 + 1003 + 1005 + \cdots + 2003 + 2005 =$ _____

$$11. 255 \times 77 + 255 \times 22 + 255 \times 12 = \underline{\hspace{2cm}}$$

$$12. 35 \times 35 \times 3.14 - 25 \times 25 \times 3.14 = \underline{\hspace{2cm}}$$

$$13. 20042005 \times 20052004 - 20042004 \times 20052005 = \underline{\hspace{2cm}}$$

$$14. \frac{17}{77} + \frac{17}{77} \times 2 + \frac{17}{77} \times 3 + \cdots + \frac{17}{77} \times 10 = \underline{\hspace{2cm}}$$

$$15. \left(249\frac{13}{67} + 370\frac{14}{25} \right) \div \left(62\frac{20}{67} + 92\frac{16}{25} \right) = \underline{\hspace{2cm}}$$

$$16. 87 \times \left(\frac{1}{43} - \frac{1}{44} \right) + 43 \times \left(\frac{1}{44} + \frac{1}{87} \right) - 44 \left(\frac{1}{43} - \frac{1}{87} \right) = \underline{\hspace{2cm}}$$

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

$$18. \frac{1}{\frac{1}{1990 \times 1991} + \frac{1}{1991 \times 1992} + \cdots + \frac{1}{2004 \times 2005}} = \underline{\hspace{2cm}}$$

$$19. \underbrace{33 \cdots 3}_{100\text{個}} \underbrace{666 \cdots 6}_{100\text{個}} \div \underbrace{9 \cdots 9}_{100\text{個}} = \underline{\hspace{2cm}}$$

$$20. \left(1\frac{2145}{9999} - \frac{18}{99} \right) \div 3\frac{981}{9999} = \underline{\hspace{2cm}}$$