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2019 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. $11+18+23+27+42+59=?$

2. $15\times 25=?$

3. $12\frac{1}{2}\times 2019\times 8\times \frac{3.14}{20.19}=?$

4. $1+902+8003+70004+600005=?$

5. $656565\div 13\div 15=?$

6. $(169-5\times 5)\div 3\times 0.25=?$

7. $3.17+5.17+7.17+9.17+11.17+13.17+15.17+17.17+19.17+21.17=?$

8. $2019-1-3-5-7-9-\dots-85-87=?$

9. $1-\frac{1}{3}-\frac{1}{6}-\frac{1}{12}-\frac{1}{24}-\frac{1}{48}-\frac{1}{96}-\frac{1}{192}=?$

10. $14+47+70+3+36+69+92+25+58+81=?$

（請翻面繼續作答）

$$11. 9.1+8.11+7.111+6.1111+5.11111+4.111111+3.1111111+2.11111111+1.111111111=?$$

$$12. 995 \times 995 + 995 \times 116 + 116 \times 995 + 116 \times 116 = ?$$

$$13. \frac{20 \times 19 \times 18 \times 17 \times 16 \times 15 \times 14 \times 13 \times 12 \times 11}{3 \times 5 \times 7 \times 9 \times 11 \times 13 \times 15 \times 17 \times 19} = ?$$

$$14. \frac{\frac{9}{28} \times 3 \frac{1}{2} + \frac{1}{6}}{8 \frac{1}{3} \div \frac{5}{7} - 5 \frac{7}{8}} \div \frac{31}{8} = ?$$

$$15. 20192019 \times 9999 + 99999 \times 20192019 - 2019 \times 99989998 = ?$$

$$16. \left(1 - \frac{1}{11} \times \frac{1}{11}\right) \times \left(1 - \frac{1}{12} \times \frac{1}{12}\right) \times \left(1 - \frac{1}{13} \times \frac{1}{13}\right) \times \dots \times \left(1 - \frac{1}{120} \times \frac{1}{120}\right) = ?$$

$$17. 131 \frac{2}{11} \times \frac{11}{13} + 111 \frac{2}{9} \times \frac{9}{11} + 91 \frac{2}{7} \times \frac{7}{9} + 71 \frac{2}{5} \times \frac{5}{7} + 51 \frac{2}{3} \times \frac{3}{5} = ?$$

$$18. 11 + 13 \frac{4}{15} + 15 \frac{4}{35} + 17 \frac{4}{63} + 19 \frac{4}{99} + 21 \frac{4}{143} = ?$$

$$19. \frac{2.71828}{2.019 \times 2.019 - 1.019 \times 3.019} = ?$$

$$20. \frac{(1 + 2019) \times \left(1 + \frac{2019}{2}\right) \times \left(1 + \frac{2019}{3}\right) \times \left(1 + \frac{2019}{4}\right) \times \dots \times \left(1 + \frac{2019}{100}\right) \times \left(1 + \frac{2019}{101}\right)}{(1 + 2020) \times \left(1 + \frac{2020}{2}\right) \times \left(1 + \frac{2020}{3}\right) \times \left(1 + \frac{2020}{4}\right) \times \dots \times \left(1 + \frac{2020}{99}\right) \times \left(1 + \frac{2020}{100}\right)} = ?$$