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2013 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. $13 + 24 + 31 + 36 + 47 + 29 = ?$

2. $483 \times 2 + 483 \times 999 = ?$

3. $375 \times 8 + 125 \times 6 = ?$

4. $12 \times 3 + 120 \times 3 + 1200 \times 3 + 12000 \times 3 = ?$

5. $2013 \div 495 \times 45 = ?$

6. $1 + 32 + 543 + 7654 + 98765 + 759876 + 7864987 + 88975398 + 999686429 = ?$

7. $13 + 213 + 413 + 613 + \dots + 1813 + 2013 = ?$

8. $13 + 26 + 52 + 104 + 208 + 416 + 832 + 1664 + 3328 + 6656 = ?$

9. $6102 + 6104 + 6106 + \dots + 6198 + 6200 - 6199 - 6197 - 6195 - \dots - 6103 - 6101 = ?$

10. $\frac{169 + 400 + 520}{9 \times 121} = ?$

(請翻面繼續作答)

11. $\frac{13^2 - 5^2}{48 \times 36 - 12 \times 75} = ?$

12. $183 \times \frac{183}{91} - \frac{1}{91} = ?$

13. $2013000 \div 125 \div 4 + 40260 \times 125 \times 4 = ?$

14. $\frac{198 \times 176 \times 154 \times 132 \times 110 \times 88 \times 66 \times 44 \times 22}{11 \times 22 \times 33 \times 44 \times 55 \times 66 \times 77 \times 88 \times 99} = ?$

15. $\frac{650}{13 \times 63} + \frac{650}{63 \times 113} + \frac{650}{113 \times 163} + \frac{650}{163 \times 213} + \dots + \frac{650}{1913 \times 1963} + \frac{650}{1963 \times 2013} = ?$

16. $\frac{183.4 \times 4 \frac{2}{7} - (3 \frac{3}{4} \times 4800) \times (\frac{0.1}{10} + \frac{0.2}{10})}{3 \frac{9}{11} \times 7 \frac{6}{7}} = ?$

17. $5 \times 5 - 4 \times 4 + 50 \times 50 - 40 \times 40 + 500 \times 500 - 400 \times 400 + 5000 \times 5000 - 4000 \times 4000 + 50000 \times 50000 - 40000 \times 40000 = ?$

18. $2013 \times (1 - \frac{1}{2}) \times (1 - \frac{1}{4}) \times (1 - \frac{1}{6}) \times \dots \times (1 - \frac{1}{2012}) \times (1 + \frac{1}{3}) \times (1 + \frac{1}{5}) \times \dots \times (1 + \frac{1}{2013}) = ?$

19. $\frac{2013^2 - 2011^2}{2012} + \frac{2009^2 - 2007^2}{2008} + \frac{2005^2 - 2003^2}{2004} + \frac{2001^2 - 1999^2}{2000} = ?$

20. $(2 + \frac{1}{2}) \times (2 + \frac{1}{3}) \times (2 + \frac{1}{4}) \times \dots \times (2 + \frac{1}{2013}) \times \frac{2013}{5} \times \frac{2012}{7} \times \frac{2011}{9} \times \dots \times \frac{2}{4027} \times \frac{1}{4029} = ?$