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2018 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. $1009 + 2018 + 3027 + 4036 = ?$

2. $1.37 + 5.69 + 2.84 + 7.85 + 4.16 + 3.31 + 9.15 + 8.63 = ?$

3. $37 \times 663 = ?$

4. $19 + 298 + 3997 + 49996 + 599995 = ?$

5.
$$\frac{\frac{1}{3} \times \frac{1}{3} + \frac{1}{4} \times \frac{1}{4}}{\frac{1}{5} \times \frac{1}{5}} = ?$$

6. $15 \times 15 \times 15 \times 15 \times 15 \times 8 \times 8 \times 8 \times 8 \times 8 \div 6 \div 6 \div 6 \div 6 \div 6 = ?$

7. $4 \times 168.25 + 8 \times 168.125 = ?$

8. $1982 \times 2018 = ?$

9. $104 \times 125 \times 707 \times 2999 = ?$

10. $23257418 + 5 \times 2325 \times 5 \times 7418 - 4 \times 2325 \times 4 \times 7418 - 3 \times 2325 \times 3 \times 7418 = ?$

（請翻面繼續作答）

11. $2.21 + 2.24 + 2.27 + \dots + 20.12 + 20.15 + 20.18 = ?$

12. $27067353 \times \frac{37 + 74 + 111 + 148 + 185 + 222 + 259 + 296 + 333}{111 + 222 + 333 + 444 + 555 + 666 + 777 + 888 + 999} = ?$

13. $\frac{\frac{4}{5} + (1 - \frac{4}{5} - \frac{1}{4} - \frac{7}{20} - 0.05)}{0.3 \times (1 - \frac{1}{3} - \frac{1}{6})} = ?$

14. $1 + 2 - 3 + 4 + 5 - 6 + 7 + 8 - 9 + \dots + 2014 + 2015 - 2016 + 2017 + 2018 = ?$

15. $2.018 \times (1.333 + 0.685) + 2 \times (2.018 - 0.036) \times 2.018 + 1.982 \times \frac{1}{3} \times 5.946 = ?$

16. $201.8 \times 5.999 - 20.18 \times 59.98 + 2.018 \times 599.7 - 0.2018 \times 5996 = ?$

17. $(20 - \frac{119}{720} \times 20) + (40 - \frac{119}{720} \times 40) + (60 - \frac{119}{720} \times 60) + (80 - \frac{119}{720} \times 80)$
 $+ (100 - \frac{119}{720} \times 100) + (120 - \frac{119}{720} \times 120) + (140 - \frac{119}{720} \times 140) + (160 - \frac{119}{720} \times 160) = ?$

18. $20182020 \times 20180408 \div 20180408 \frac{20180408}{20182019} = ?$

19. $\frac{1}{1009 \times 1010} + \frac{1}{1010 \times 1011} + \frac{1}{1011 \times 1012} + \dots + \frac{1}{2016 \times 2017} + \frac{1}{2017 \times 2018} = ?$

20. $10987654321 + 11098765432 + 21109876543 + 32110987654 + 43211098765 +$
 $54321109876 + 65432110987 + 76543211098 + 87654321109 + 98765432110 +$
 $9876543211 = ?$