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2006 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. $82+93+100+107+218$ = _____

2. $87\times8+25\times6+38\times8+12\times6$ = _____

3. $7\times9\times11\times13\times101$ = _____

4. $98\times102\times10004$ = _____

5. $2006\times225\div17-2006\times125\div85$ = _____

6. $1-2+2\times2-2\times2\times2+2\times2\times2\times2-2\times2\times2\times2\times2+2\times2\times2\times2\times2\times2-2\times2\times2\times2\times2\times2\times2\times2+2\times2\times2\times2\times2\times2\times2\times2$ = _____

7. $(2+4+6+8+\cdots+2006)-(1+3+5+7+\cdots+2005)$ = _____

8. $8+88+888+8888+88888+888888+8888888+88888888+888888888+8888888888+88888888888$ = _____

9. $\dfrac{64\times64\times64+36\times36\times36}{64\times64+36\times36-64\times36}$ = _____

10. $37\dfrac{3}{5}\times48\dfrac{2}{5}+62\dfrac{2}{5}\times28\dfrac{2}{5}$ = _____

11. $43.2\times8.2+5.57\times18+125\times0.12$ = _____

12. $12.23+24.46\times0.526\times\dfrac{1}{4}+5.26\times0.2446\times7.5-2.446\times2.5\times0.526\times4$ = _____

(請翻面繼續作答)

13. $\left(\frac{1}{2}-\frac{1}{6}\right)+\left(\frac{1}{4}-\frac{1}{12}\right)+\left(\frac{1}{14}-\frac{1}{24}\right)+\left(\frac{1}{28}-\frac{1}{48}\right)+\left(\frac{1}{56}-\frac{1}{96}\right)$ = _____

14. $\left(14\frac{2}{5}+26\frac{2}{7}+36\frac{4}{9}\right)\div\left(1\frac{4}{5}+3\frac{2}{7}+4\frac{5}{9}\right)$ = _____

15. $\frac{246369}{321963}\times\frac{231693}{369246}\times\frac{642321}{462693}$ = _____

16. $\cfrac{2}{3+\cfrac{2}{3+\cfrac{2}{3+\cfrac{2}{3+\frac{2}{3}}}}}$ = _____

17. $1+\frac{1}{2}\times\left[\frac{1}{3}\div\left(\frac{1}{4}-\frac{1}{6}\right)\div\frac{1}{7}\times\frac{1}{8}-\frac{1}{2}\right]$ = _____

18. $\cfrac{0.25+\frac{3}{4}+9\frac{5}{8}\div 0.875\times 0.25}{43.75-8\frac{1}{3}\times 4\frac{1}{5}}$ = _____

19. $10\frac{1}{1024}-9\frac{1}{512}+8\frac{1}{256}-7\frac{1}{128}+6\frac{1}{64}-5\frac{1}{32}+4\frac{1}{16}-3\frac{1}{8}+2\frac{1}{4}-1\frac{1}{2}$ = _____

20. $\frac{1}{2\times 4}+\frac{1}{4\times 6}+\frac{1}{6\times 8}+\frac{1}{8\times 10}+\ldots+\frac{1}{2002\times 2004}+\frac{1}{2004\times 2006}$ = _____