

2016 Taiwan Selection Test for PMWC and EMIC  
Preliminary Round Paper I (Time Allowed : 60 Minutes)

- Write down all answers on the answer sheet.
- Each problem is worth 5 points and the total is 100 points.

1.  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 5 \times 25 \times 125 = ?$
2.  $5 + 10 + 15 + 20 + 25 + \dots + 300 + 305 + 310 + 315 = ?$
3.  $10.08 + 20.16 + 30.32 + 40.64 + 51.28 - 8.07 - 12.15 - 16.31 - 20.63 - 25.27 = ?$
4.  $167 \times 399 + 167 \times 399 + 167 \times 399 + 167 \times 399 + 167 \times 399 + 167 \times 399 = ?$
5.  $164 + 164 \times 3 + 164 \times 5 + 164 \times 7 + 164 \times 9 + 164 \times 11 = ?$
6.  $135789 + 357891 + 578913 + 789135 + 891357 + 913578 = ?$
7.  $201.6 \times 7.8 \div 9 \times 3 \div 67.2 \times 5 \div 3.9 = ?$
8.  $2016 + 2015 + 2014 + \dots + 1010 + 1009 - 1008 - 1007 - \dots - 3 - 2 - 1 = ?$
9.  $954 \times 954 - 504 \times 504 - 450 \times 450 = ?$
10.  $2016 \times 7777 + 672 \times 6666 = ?$
11.  $\frac{1 \times 3 \times 6 \times 10 + 4 \times 12 \times 24 \times 40 + 7 \times 21 \times 42 \times 70 + 10 \times 30 \times 60 \times 100}{2 \times 5 \times 7 \times 11 + 8 \times 20 \times 28 \times 44 + 14 \times 35 \times 49 \times 77 + 20 \times 50 \times 70 \times 110} = ?$

12.  $20.16 \times 20.16 + 79.84 \times 120.16 = ?$

13.  $28.8 \times 199.99 - 2.88 \times 1999.6 - 0.288 \times 1.9993 = ?$

14.  $21\frac{1}{16} + (5 \times 2\frac{1}{7} - 4 \div \frac{1}{3}) \div \frac{1}{7} + 0.9375 = ?$

15.  $\frac{1169}{1690} \times 1\frac{214}{501} \div 8\frac{89}{114} = ?$

16.  $2015 \times \frac{2015}{2016} + 2016 \times \frac{2016}{2017} - \frac{4033}{2016 \times 2017} = ?$

17.  $91 + 929 + 9399 + 94999 + 959999 + 9699999 + 97999999 + 989999999 = ?$

18.  $\frac{1}{1 \times 2} - \frac{2}{1 \times 2 \times 4} - \frac{14}{1 \times 2 \times 4 \times 8} - \frac{30}{1 \times 2 \times 4 \times 8 \times 16} - \frac{62}{1 \times 2 \times 4 \times 8 \times 16 \times 32} = ?$

19.  $(20\frac{485359}{999999} - \frac{323}{999}) \div 10\frac{81018}{999999} = ?$

20. 
$$\frac{33 \times 27 - 22 \times 18 + 9 - 4}{125 + \frac{(33 \times 27 - 22 \times 18 + 9 - 4)}{9 - \frac{(33 \times 27 - 22 \times 18 + 9 - 4)}{75 + \frac{(33 \times 27 - 22 \times 18 + 9 - 4)}{30 - \frac{(33 \times 27 - 22 \times 18 + 9 - 4)}{48 + \frac{(33 \times 27 - 22 \times 18 + 9 - 4)}{250}}}}} = ?$$