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# 2014 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.  $6 \times 72 \times 125 = ?$
2.  $2 + 7 + 27 + 72 + 272 + 727 + 2727 + 7272 = ?$
3.  $5 + 605 + 1605 + 21605 + 721605 = ?$
4.  $(9999 + 11118888 + 22227777 + 33336666 + 44445555 + 55554444 + 66663333 + 77772222 + 88881111 + 99990000) \div 9 =$
5.  $93339 \times 87655 + 31113 \times 37035 = ?$
6.  $1.2014 \times 0.3993 + 0.3993 \times 0.7986 + 0.7986 \times 4999 = ?$
7.  $\frac{1 + 2 + 4 + 8 + 16 + 32 + 64 + 128 + 256 + 512}{0.01 + 0.04 + 0.09 + 0.18 + 0.32 + 0.42 + 0.49 + 0.64 + 0.81} = ?$
8.  $201420142014 \times 201420142017 - 201420142015 \times 201420142015 = ?$
9.  $11231 + 12341 + 13451 + 14561 + 15671 + 16781 + 17891 + 18911 + 19121 = ?$
10.  $\frac{1}{7} + \frac{1}{14} + \frac{1}{28} + \frac{1}{31} + \frac{1}{62} + \frac{1}{124} + \frac{1}{248} + \frac{1}{496} = ?$

