

第七屆培正數學邀請賽
7th Pui Ching Invitational Mathematics Competition

決賽答案
Answers to Final Event

題號 No	中一組 Secondary 1	中二組 Secondary 2	中三組 Secondary 3	中四組 Secondary 4	高中組 Senior Secondary
1	15050	9	112	101	3
2	8	112	1029	8888889	$\frac{501}{2008}$
3	3620	15050	101	8	$\frac{3}{5}$
4	2575	3620	2575	$\frac{1}{10302}$	30
5	8888889	2975	30	$\frac{3}{5}$	100
6	86	6	16	$13\sqrt{2}$	6
7	60	364	364	16.75	3
8	107	60	752	36	2800
9	10247	$\frac{24}{5}$	$\frac{2}{3}$	16	117
10	96	101010	10247	2800	752
11	$\frac{24}{5}$	$\frac{2}{3}$	96	900	16.75
12	2016	48	3537	$\frac{1}{6} + \sqrt{\frac{5}{4}}$	86
13	640	10247	640	20	20
14	18000	18000	48	40480	40480
15	48	3537	198	198	101010
16	38	38	28	28	$\frac{5\sqrt{2}}{2}$
17	9	2	2	9	9
18	64	1640	64	1640	303
19	12	12	24	$\frac{3+\sqrt{3}}{12}$	$\frac{3+\sqrt{3}}{12}$
20	24	$\frac{5\sqrt{2}}{3}$	$\frac{5\sqrt{2}}{3}$	$\frac{5\sqrt{2}}{3}$	$-\sqrt{2}$