

第十屆培正數學邀請賽
10th 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	224	2	60	2	10
2	135	60	675	10	3
3	401	224	6	18	7
4	6	$\sqrt{15}$	18	7	675
5	48	48	4	20	20
6	8	15	8	15	3
7	6	6	4020	-1	-1
8	21	4020	21	-9	-9
9	25	1004	1004	8	646
10	15	25	15	$\frac{2011}{2012}$	$2\sqrt{2}$
11	335	8	4042111	$2\sqrt{2}$	$\frac{8}{25}$
12	12	335	335	$\frac{12}{25}$	4042111
13	16	167	$\frac{93}{25}$	8553	$2+\sqrt{3}$
14	8553	$-\sqrt{2011}$	167	100	100
15	50	50	14604	$2+\sqrt{3}$	6
16	59	216	$-\sqrt{2011}$	14604	$-\sqrt{2011}$
17	63253	63253	42	39	16
18	39	42	597870	16	$\frac{7889}{100000}$
19	42	643	$\frac{9}{70}$	$\frac{7889}{100000}$	21
20	$\frac{9}{70}$	597870	$\frac{74}{105}$	$\frac{74}{105}$	643