

平成 30 年度 テスト B

番号	配点	正 答	上位群		無答率		誤答率	主な誤答例 (標本全体に対する%)
			正答率	下位群	無答率	下位群		
[ 1 ] (1)	4	-7	76.4	92.5 68.0	0.2	0.0 0.7	23.4	25(4.4), 7(2.5), -144(2.3), -5(1.3)
(2)	4	$(x, y) = (2, -3)$	73.4	92.5 59.2	1.5	0.0 0.7	25.1	$(\frac{23}{7}, -\frac{12}{7})$ (4.6), (-2, -7)(2.1), (1, -4)(1.8), (-2, 7)(1.1)
(3)	4	$(a-1)(b+1)$	45.4	74.1 23.8	27.4	12.9 42.9	27.2	$a(b+1)-b-1$ (4.0), $a(b+1)-(b+1)$ (2.9)
(4)	4	0	50.4	76.9 19.7	2.4	0.0 2.7	47.2	$-1+\sqrt{2}$ (6.5), $-2+\sqrt{2}$ (6.2), $\sqrt{2}$ (2.0), $\sqrt{6}$ (1.8)
(5)	4	$x = -1 \pm \sqrt{5}$	71.0	88.4 46.3	1.2	0.0 2.7	27.8	$\pm\sqrt{5}$ (2.9), $-2 \pm \sqrt{5}$ (2.0), $1 \pm \sqrt{5}$ (1.8), 2(1.6)
(6)	4	$a = 3, 4, 5, 6$	50.6	87.1 20.4	7.7	0.0 11.6	41.7	4, 5, 6(16.1), 4, 5, 6, 7(3.7), 3, 4(3.6), 3, 4, 5(3.4)
(7)	4	5 回	23.9	49.0 11.6	7.3	1.4 8.8	68.8	4(18.1), 10(13.3), 6(4.1), 9(3.5)
(8)	4	44% 増加	36.0	58.5 12.2	5.0	0.0 9.5	59.0	40% 増加(14.0), 20% 増加(5.6), 4% 増加(5.2)
(9)	4	$x = \frac{3}{2}$	54.8	78.9 29.3	3.3	0.0 4.1	41.9	2(21.7), $\frac{2}{3}$ (8.4), 6(5.6), 2.5(2.7)
(10)	4	$\angle x = 40^\circ$	55.2	74.8 37.4	9.7	2.7 13.6	35.1	30(7.6), 60(7.1), 45(4.6), 20(4.4)
[ 2 ] (1)	5	8 点	74.1	96.6 57.8	3.2	0.0 5.4	22.7	6.5(3.7), 6(2.9), 7(2.3), 4(2.1)
(2)	5	$a = 5, b = 6$	72.8	96.6 44.9	4.3	0.0 8.8	22.9	(6, 5)(9.2), (3, 8)(2.0), (4, 7)(1.8), (7, 4)(1.2)
(3)	5	$\frac{3}{10}$	78.4	91.8 70.7	0.3	0.0 0.7	21.3	$\frac{1}{4}$ (4.6), $\frac{1}{5}$ (4.2), $\frac{2}{5}$ (1.4), $\frac{6}{25}$ (1.4)
(4)	5	10 通り	36.9	53.1 23.1	3.5	2.0 6.1	59.6	6(10.8), 7(10.6), 9(9.6), 1(4.3)
[ 3 ] (1)	5	(2, 2)	86.6	99.3 71.4	4.2	0.0 6.8	9.2	(4, 4)(1.6), (3, 3)(1.0), (6, 6)(0.7), (-2, -2)(0.5)
(2)	5	$(\frac{12}{5}, \frac{6}{5})$	18.6	38.1 0.7	28.7	21.1 36.7	52.7	$(\frac{5}{2}, 1)$ (6.8), (2, 1)(6.2), (3, 1)(4.1), (4, 2)(3.2)
[ 4 ] (1)	5	$y = x^2$	41.6	76.9 7.5	16.1	0.0 35.4	42.3	$6x$ (7.1), $3x^2$ (4.8), $2x^2$ (4.4), $2x$ (2.7)
(2)	5	$y = -6x + 72$	14.9	31.3 0.7	37.7	14.3 66.0	47.4	36(5.8), $-6x + 36$ (2.1), $6x$ (1.8), $2x$ (1.5)
[ 5 ] (1)	5	$9 + 2\pi$ cm	9.5	16.3 1.4	10.2	5.4 15.6	80.3	15(19.0), 9(9.1), 12(9.0), $2\pi$ (8.0)
(2)	5	$18 + 4\pi$ cm <sup>2</sup>	6.0	12.9 0.0	33.4	26.5 42.9	60.6	$\frac{25\sqrt{3}}{4}$ (3.3), $9 + \pi$ (3.1), $4\sqrt{3}$ (2.0), $9\pi$ (1.9)
[ 6 ] (1)	5	$\frac{3\sqrt{11}}{2}$	8.7	7.5 0.7	12.3	6.1 23.8	79.0	5(20.5), $\frac{15}{2}$ (12.0), $\frac{3}{2}$ (8.0), $\frac{9}{2}$ (4.3)
(2)	5	5 : 4	14.9	19.7 9.5	15.3	12.2 17.7	69.8	3 : 2(21.9), 2 : 1(5.8), 1 : 1(5.3), 25 : 16(4.4)