

2017 Fall Startup Event Answer Key

498	1	816	26	16π	51	42	76
11	2	$\frac{400D}{S}$	27	90	52	91	77
156	3	12	28	ABCDE (any order)	53	1296	78
$\frac{5}{9}$	4	4	29	53	54	$\frac{16}{33}$	79
38	5	$\frac{1}{2}$	30	15	55	$\frac{11}{26}$	80
7990	6	$81j^2 - 144i + 64$	31	6	56	$\frac{5}{11}$	81
84	7	9	32	$\frac{5}{8}$	57	20	82
1200	8	30	33	2	58	60	83
30	9	$\sqrt{58}$	34	$(1, -\frac{3}{2})$	59	17	84
$\frac{20}{33}$	10	40	35	$3\pi\sqrt{15}$	60	$\frac{1}{4}$	85
Tuesday	11	$9\sqrt{3}$	36	5	61	7	86
8	12	$3\sqrt{2}$	37	2	62	83	87
$2\sqrt{2}$	13	"centroid" or "center of mass"	38	1210 or 1210.00	63	97	88
85	14	"octagon"	39	$-\frac{6}{7}$	64	516	89
20	15	$\frac{135}{2}$	40	100	65	64	90
4	16	20	41	2016_6 or 2016_7	66	24	91
$-8u^2 + 4u + 4$	17	88	42	523_8 or 523_9	67	90	92
40	18	"altitude"	43	123	68	$10\sqrt{3}$	93
III or 3 or Third	19	$\frac{12}{5}$	44	8	69	2π	94
$y = -2x - 4$	20	24	45	124	70	$2 - 2i\sqrt{3}$	95
$\frac{1}{2}$	21	$14\sqrt{2}$	46	16	71	"ellipse"	96
$2\sqrt{34}$	22	$\frac{15}{8}$	47	143	72	96	97
$(-13, 1)$	23	108	48	3	73	-13	98
$\frac{5\sqrt{82}}{82}$	24	49π	49	12	74	2	99
$y = \frac{7}{16}$	25	31π	50	$\frac{8}{9}$	75	$\frac{e^6}{3} - \frac{e^3}{3}$	100