

CUMULATIVE POD FORMULA AND TABLE

FORMULA

$$\text{CUMULATIVE POD} = 1 - [(1 - \text{POD \#1}) \times (1 - \text{POD \#2}) \times (1 - \text{POD \#3}) \dots]$$

EXAMPLE:

SWEEP #1 (HELICOPTER)	SWEEP #2 (DOG TEAM)	SWEEP #3 (GROUND TEAM)
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20% POD = 0.2	50% POD = 0.5	60% POD = 0.6
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$$\begin{aligned} \text{CUMULATIVE POD} &= 1 - [(1 - 0.2) \times (1 - 0.5) \times (1 - 0.6)] \\ &= 1 - [0.8 \times 0.5 \times 0.4] \\ &= 1 - 0.16 \\ &= 0.84 \end{aligned}$$

$$\text{CUMULATIVE POD} = 0.84 \times 100 = \mathbf{84\%} \text{ (FOR ALL SWEEPS)}$$

CUMULATIVE POD TABLE

		POD THIS SEARCH																		
		%	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
PREVIOUS POD (OR CUMULATIVE POD)	5	10	15	19	24	29	34	38	43	48	53	57	62	67	72	76	81	86	91	95
	10	15	19	24	28	33	37	42	46	51	55	60	64	69	73	78	82	87	91	96
	15	19	24	28	32	36	41	45	49	53	58	62	66	70	75	79	83	87	92	96
	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96
	25	29	33	36	40	44	48	51	55	59	63	66	70	74	78	81	85	89	93	96
	30	34	37	41	44	48	51	55	58	62	65	69	72	76	79	83	86	90	93	97
	35	38	42	45	48	51	55	58	61	64	68	71	74	77	81	84	87	90	94	97
	40	43	46	49	52	55	58	61	64	67	70	73	76	79	82	85	88	91	94	97
	45	48	51	53	56	59	62	64	67	70	73	75	78	81	84	86	89	92	95	97
	50	53	55	58	60	63	65	68	70	73	75	78	80	83	85	88	90	93	95	98
	55	57	60	62	64	66	69	71	73	75	78	80	82	84	87	89	91	93	96	98
	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98
	65	67	69	70	72	74	76	77	79	81	83	84	86	88	90	91	93	95	97	98
	70	72	73	75	76	78	79	81	82	84	85	87	88	90	91	93	94	96	97	99
	75	76	78	79	80	81	83	84	85	86	88	89	90	91	93	94	95	96	98	99
	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
	85	86	87	87	88	89	90	90	91	92	93	93	94	95	96	96	97	98	99	99
	90	91	91	92	92	93	93	94	94	95	95	96	96	97	97	98	98	99	99	100
	95	96	96	96	96	96	97	97	97	97	98	98	98	98	99	99	99	99	100	100

ENTER THE TABLE WITH THE PREVIOUS POD OR CUMULATIVE POD ON THE LEFT AND THE POD FOR THIS SEARCH ON THE TOP. READ THE NEW CUMULATIVE POD AT THE ROW AND COLUMN INTERSECTION. RECOMMENDATIONS FROM POD RESEARCH SUGGEST THAT ONCE YOU REACH THE SHADED AREA THRESHOLD, AND THERE ARE OTHER AREAS TO LOOK AT, CONCENTRATE IN THE OTHER AREAS. THE INCREASED THOROUGHNESS FACTOR IS NOT WORTH THE SEARCHER HOURS

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