Content validity index: worked-example sheet

Formulas

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I-CVI = A / N   (A = experts rating 3 or 4; N = experts)
S-CVI/Ave = mean of I-CVIs      S-CVI/UA = items with I-CVI 1.00 / items
Pc = [N! / (A!(N-A)!)] x 0.5^N     k* = (I-CVI - Pc) / (1 - Pc)
k*: fair .40-.59, good .60-.74, excellent > .74 (Polit, Beck & Owen 2007, after Cicchetti & Sparrow 1981)
```

Worked example (illustrative ratings, 4-point scale)

Item	E1	E2	E3	E4	E5	E6	A (rated 3-4)	I-CVI	Pc	k*	Rating
Item 1	4	4	3	4	4	3	6	1.00	0.016	1.00	Excellent
Item 2	4	3	4	2	4	4	5	0.83	0.094	0.82	Excellent
Item 3	3	2	4	4	1	3	4	0.67	0.234	0.56	Fair
Item 4	4	4	4	4	3	4	6	1.00	0.016	1.00	Excellent
Item 5	3	4	4	4	2	4	5	0.83	0.094	0.82	Excellent

S-CVI/Ave = 0.87; S-CVI/UA = 0.40. Item 3 is below threshold; revise or drop.

Step for Item 2 (A = 5, N = 6): I-CVI = 5/6 = .833. Pc = 6 x 0.5^6 = .094. k* = (.833 - .094)/(1 - .094) = 0.82 (excellent).

Lynn (1986) minimum agreement, as commonly reproduced

Experts	3	4	5	6	7	8	9	10
Min. agreeing	3	4	5	5	6	7	7	8
Min. I-CVI	1.00	1.00	1.00	0.83	0.86	0.88	0.78	0.80

Blank rating grid (count ratings of 3 or 4 as agreement)

Item	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	A	I-CVI	k*
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

S-CVI/Ave: _____ S-CVI/UA: _____ Panel (number, expertise, selection): _____

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