



How to Calculate Knowledge Learned

EXAMPLE:

Please rate your **level of knowledge** on the following subjects **BEFORE attending** this workshop:

	Low level				High level	total
Topic 1	1	2	3	4	5	
# of responses for topic #1	5	4	0	0	1	18

Please rate your **level of knowledge** on the following subjects **AFTER attending** this workshop

Topics	Low Level				High Level	total	Knowledge Learned
Topic 1	1	2	3	4	5		
# of responses for topic #1	0	0	0	7	3	43	+58%

Use this simple formula for figuring the percentage of knowledge learned from your workshop.

1. Total the rating levels for “knew before attending” and “know after attending” for each topic or question.

Using the rating information from the example above:

Topic #1 ratings BEFORE attending this workshop:

a. **Multiply each rating by the number of responses:**

$$\begin{aligned}
 1 \times 5 &= 5 && (5 \text{ participants rated this topic with a } 1) \\
 2 \times 4 &= 8 && (4 \text{ participants rated this topic with a } 2) \\
 3 \times 0 &= 0 && (0 \text{ participants rated this topic with a } 3) \\
 4 \times 0 &= 0 && (0 \text{ participants rated this topic with a } 4) \\
 5 \times 1 &= 5 && (1 \text{ participants rated this topic with a } 5)
 \end{aligned}$$

b. **Next total the ratings for each level: $5 + 8 + 0 + 0 + 5 = 18$**

Topic #1 ratings AFTER attending this workshop:

c. **Multiply each rating by the number of responses:**

$$\begin{aligned}
 1 \times 0 &= 0 && (0 \text{ participants rated this topic with a } 1) \\
 2 \times 0 &= 0 && (0 \text{ participants rated this topic with a } 2) \\
 3 \times 0 &= 0 && (0 \text{ participants rated this topic with a } 3) \\
 4 \times 7 &= 28 && (7 \text{ participants rated this topic with a } 4) \\
 5 \times 3 &= 15 && (3 \text{ participants rated this topic with a } 5)
 \end{aligned}$$

d. **Next total the ratings for each level: $0 + 0 + 0 + 28 + 15 = 43$**

2. Calculate the spread of knowledge gained.

a. Find the difference between the “know after attending” total by the “knew before attending” total:

$$43 - 18 = 25$$

b. then divide the spread by the “know after attending” total:

$$25 / 43 = .58$$

3. Calculate the percentage of knowledge learned.

a. Multiply the spread of knowledge gained by 100:

$$.58 \times 100 = 58\%$$