



# Behavioural Ratios

1. Teacher Talk (TT)

$$= \frac{\sum F (\text{column 1 to 7})}{N} \times 100$$

$$= \frac{282}{484} \times 100$$

$$= 58.26\%$$

2. Pupil Talk (PT)

$$= \frac{\sum F (\text{column 8 + 9})}{N} \times 100$$

$$= \frac{90}{484} \times 100$$

$$= 18.59\%$$

3. Silence or confusion (SC)

$$= \frac{\sum F (\text{column 10})}{N} \times 100$$

$$= \frac{112}{484} \times 100$$

$$= 23.14\%$$

4. Indirect Teacher Talk (ITT)

$$= \frac{\sum F (\text{column 1 to 4})}{N} \times 100$$

$$= \frac{92}{484} \times 100$$

$$= 19\%$$

5. Direct Teacher Talk (DTT)

$$= \frac{\sum F (\text{column 5+6+7})}{N} \times 100$$

$$= \frac{190}{484} \times 100$$

$$= 39.25\%$$

6. Indirect to Direct Ratio (I/D Ratio)

$$= \frac{\sum F (\text{column 1 to 4})}{\sum F (\text{column 5 to 7})} \times 100$$

$$= \frac{92}{190} \times 100$$

$$= 48.42\%$$

7. Pupil Initiation Ratio (PIR)

$$= \frac{\sum F (\text{column 9})}{\sum F (\text{column 8+9})} \times 100$$

$$= \frac{30}{90} \times 100$$

$$= 33.33\%$$

8. Teacher Response Ratio (TRR)

$$= \frac{\sum F (\text{column 1 to 3})}{\sum F (\text{column 1+2+3+6+7})} \times 100$$

$$= \frac{35}{69} \times 100$$

$$= 50.72\%$$

9. Teacher Question Ratio (TQR)

$$= \frac{\sum F (\text{column 4})}{\sum F (\text{column 4+5})} \times 100$$

$$= \frac{57}{166} \times 100$$

$$= 34.33\%$$

10. Control Cross Ratio (CCR)

$$= \frac{\sum F (\text{column 4+5})}{N} \times 100$$

$$= \frac{213}{484} \times 100$$

$$= 44\%$$

11. Steady State Ratio (SSR)

$$= \frac{\text{Steady State Cells}}{N} \times 100$$

$$\text{SSC} = \frac{(1,1) + (2,2) + (3,3) + (4,4) + (5,5), \\ (6,6) + (7,7) + (8,8) + (9,9) + (10,10)}{N}$$

$$= \frac{260}{484} \times 100$$

$$= 53.71\%$$

12. Pupil Steady State Ratio (PSSR)

$$= \frac{\sum F (8,8) + (9,9)}{\sum F (8+9)} \times 100$$

$$= \frac{12}{90} \times 100$$

$$= 13.33\%$$

13. Instantaneous Teacher Response Ratio (ITRR-89)

$$\text{TRR} = \frac{(8,1) + (8,2) + (8,3) + (9,1) + (9,2) + (9,3)}{(8,1) + (8,2) + (8,3) + (8,7) + (9,1) + (9,2) + (9,3) + (9,6) + (9,7)}$$

$$= \frac{7}{11} \times 100$$

$$= 63.63\%$$

14. Instantaneous Teacher Question Ratio (TQR-89)

$$\text{TQR-89} = \frac{(8,4) + (9,4)}{\{(8,4) + 8,5\} + (9,4) + (9,5)} \times 100$$

$$= \frac{8}{42} \times 100$$

$$= 19.04\%$$

# INTERPRETATION OF BEHAVIOUR

## RATIO

(Based on FIACS)

	BEHAVIOUR RATIO	INDIA	USA	PERCENTAGE
1.	Teacher Talk	67	70	58.26
2.	Pupil Talk	21	19	18.59
3.	Silence / Confusion	12	11	23.14
4.	Teacher Response Ratio	26	35	50.72
5.	Teacher Question Ratio	19	20	34.33
6.	Pupil Initiation Ratio	12	15	33.33
7.	Steady State Ratio	46	52	53.71
8.	Pupil Steady State Ratio	37	26	13.33
9.	Content cross ratio	72	68	44.00
10.	Instantaneous Teacher Response Ratio	48	67	63.63
11.	Instantaneous Teacher Question Ratio	42	39	19.04