Ribbon Calculation Guide

Step 1: Write Down These Variables

Fill in the blanks with your team's information:

- **N meets** = Number of meets = _____
- **E individual** = Number of individual events per meet = _____
- **E relay** = Number of relay events per meet = _____
- **T relay** = Number of swimmers per relay = _____ (usually 4)

Step 2: Placement Factors to Use (Total = 100%)

Places	Placement Factor (x)
1st–3rd place	0.45 (45%)
4th–6th place	0.30 (30%)
7th–8th place	0.25 (25%)

Distribute the total percentage equally among the places in each group:

Place Placement Factor (x)

1st	0.15
2nd	0.15
3rd	0.15
4th	0.10
5th	0.10
6th	0.10
7th	0.125
8th	0.125

Step 3: Calculate Individual Event Ribbons per Meet per Place

Formula:
Individual ribbons per place per meet = E individual × (x)

Steps:

1. Write down the number of individual events per meet (E individual).
2. Multiply by x (from the placement factor table).
3. Result: Number of individual ribbons needed for that place per meet.

Step 4: Calculate Relay Event Ribbons per Meet per Place

Formula:
Relay ribbons per place per meet = E relay × T relay × (x(

Steps:

1. Write down the number of relay events per meet (E_relay).
2. Multiply by the number of swimmers per relay (T_relay).
3. Multiply by x (from the placement factor table).
4. Result: Number of relay ribbons needed for that place per meet.

Step 5: Calculate Total Ribbons per Place per Meet

Formula:
Total ribbons per place per meet = (Individual ribbons per meet) + (Relay ribbons per meet)

Steps:

1. Add the results from Steps 3 and 4.
2. Result: Total number of ribbons needed for that place in a single meet.

Step 6: Calculate Season Total Ribbons per Place

Formula:
Total ribbons per place for the season = Total ribbons per place per meet × N_meets

Steps:

1. Take the total ribbons per place per meet (from Step 5).
2. Multiply by the number of meets (N meets).
3. Result: Total ribbons needed for that place over the season.

Step 7: Repeat for Each Place

Follow Steps 3 through 6 for each place using the placement factors. Fill in the results below:

Place Total Ribbons for Season

Place	Total Ribbons for Season
1st	_____
2nd	_____
3rd	_____
4th	_____
5th	_____
6th	_____
7th	_____
8th	_____