## RISK RATIO CALCULATION For a Particular Disability Category Example

## Question

What is a specific racial/ethnic group's risk of receiving special education and related services for a particular disability as compared to the risk for all other students?

## **Equation**

## **Example**

In a North Carolina local education agency (LEA), what is the risk for African American students receiving special education as Intellectually Disabled (ID)-mild as compared to the risk for all other students?

1. Calculate the numerator – risk for African American students to be identified as ID-mild

Risk = 
$$\frac{African \ American \ Students \ ID-mild \ category}{All \ African \ American \ students \ enrolled \ in \ the \ LEA}$$
 100
$$= \frac{32 \ African \ American \ ID-mild \ students}{751 \ African \ American \ students}$$
 100
$$= 4.26$$

2. Calculate the denominator – risk for all other students to be identified as ID-mild

Risk = 
$$\frac{All \text{ other students in } ID-mild \text{ category}}{All \text{ other students enrolled in the LEA}}$$
 100  
=  $\frac{104 \text{ all other students } ID-mild}{11060 \text{ all other students enrolled in LEA}}$  100  
= 0.94

3. Calculate the risk ratio for ID-mild African American students:

$$= \frac{4.26}{0.94}$$
$$= 4.53$$

**Answer:** In the North Carolina LEA example, African American students are **4.53** times more likely to be identified to receive special education as ID-mild than all other students.