**Basic Key Concepts of Data Analysis**

The complete RHIS curriculum is available here:

[https://www.measureevaluation.org/our-work/](https://www.measureevaluation.org/our-work/routine-health-information-systems/rhis-curriculum)

[routine-health-information-systems/rhis-curriculum](https://www.measureevaluation.org/our-work/routine-health-information-systems/rhis-curriculum)

**5.1.1**

Instructions: This handout should be given to participants the day before Module 5 (on data analysis) is presented.

Ask the participants to read this page, provide definitions of the terms, and answer a series of questions.

**Ratio**

* Definition: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* In District X, there are 600 nurses in 200 clinics. What is the ratio of nurses to clinics?

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**Proportion and Percentage**

* Definitions: Proportion\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Percentage\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* If twenty of 100 clients on treatment are younger than 15 years of age, what is the proportion of young clients in the clinic?
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Then express the result as a percentage.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Rates**

* Definition: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* ***Mortality rate***
* In 2009, Clinic X had 31,155 patients on ART. During the same period, 1,536 ART clients died.
* Calculate the HIV mortality rate. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* ***Rate of change***
* In Quarter 1, there were 50 new family planning users and in Quarter 2, there were 75 new users.
* What was the rate of increase from Quarter 1 to Quarter 2? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

