id a

3055 BA SANGAM COLLEGE





Week 11 YEAR 09

SUDJECT: MATHEM	ATICS NAME OF STUDENT:
STRAND	SOCIAL MATHEMATICS
SUB-STRAND	Money, Ratio and Proportion
Content Learning	Introduce ratios, proportions, percentages and rates and to apply these in
Outcome	everyday situations

<u>Ratio</u>

Objective:

- Define ratio

SUDIECT. MATHEMATICS

- Calculate ratio of two items in its simplest forms

Ratio : is the division of two quantities with the same unit

- It is often expressed as a fraction or may also be expressed with a colon which is in the form of *a*: *b*.
- The ration must be in its simplest form.

Example 1

In a class of 40 students, there are 16 boys and 24 girls. Write the ratio of boys to girls.

16 boys and 24 girls = 16 : 24

$$=\frac{16}{8}:\frac{24}{8}$$

= 2:3

Example 2

The ratio of Physics students to Geography students at Vuniniu Secondary School is 3: 5. If 20 students are taking Geography, how many students are taking Physics?

Represent physics students as p

Physics: Geography

3: 5 = p: 20

$$\frac{3}{5} = \frac{p}{20}$$

3 x 20 = p x 5
60 = 5p
12 = p

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Therefore 12 students are taking physics

<u>ACTIVITY</u>

1. Express the follow	ing in their simplest rati	OS
(a) 20:12	(b) 25: 12	(c) 10:20

2. Divide \$300.00 in the following ratios

(a)	1:2	(b) 2:3	(c) 1:5	(3 m)

2. Divide the following in the ratio 2: 3.

(a) \$50.00 (b) 80 coconuts

(b) 80 coconuts (c) 75 litres of petrol (3 m)

(3 m)