

MINISTRY OF EDUCATION
RUTSIRO DISTRICT
SCHOOL: G.S NYAMYUMBA
MATHEMATICS P5

APPLICATION OF DIRECT PROPORTION

A) RATIO IN EVERYDAY SITUATION

Example: Mugeni has 8 books and Gasore has 6 books. Find the ratio of the books Mugeni has to the books which Gasore has. In this problem, you should reduce fractions which have a common factor.

WORKING:

The ratio of Mugeni,s books: Gasore,s books

=8:6 (Divide each number by 2)

=4:3

Exercise: Kwitonda has 10 pens while kwizera has 12 pens .Find the ratio of the pens kwitonda has to the pens Kwizera has.

DIRECT PROPORTION IN LIFE SITUATIONS

In direct proportion, something increases while another thing increases or something decreases while another thing also decreases.

Example 1: Find the number of legs 3 goats have.

-1 goat has 4 legs = 1:4

**-Number of legs on 3 goats = (3 x 4) legs
=12 legs**

Example 2: The number of legs on the tables is 24 legs
.How many tables are there.

-1 table has 4 legs = 1:4 legs

**-Number of tables = (24÷4) tables
=6 tables**

Summary: In direct proportions ,when one quantity increases,the second quantity increases or when one quantity decreases ,the second quantity also decreases.

HOMEWORK

1) Divide 24 pens in the ratio of 1:3

2) In a school ,the ratio of girls to boys is 5:4,find :

a) The girls b) The boys in a school of 36 learners