



SUBJECT: MATHEMATICAL LITERACY

LEVEL: 3

MODULE 1 NUMBERS

RATES AND DIRECT PROPORTIONS

After completing this topic, you will be able to: Determine rates from given values/relationships

- Identify different units in an expression
- Demonstrate knowledge, skill and value solve sums with confidence.

Rates and direct proportions.

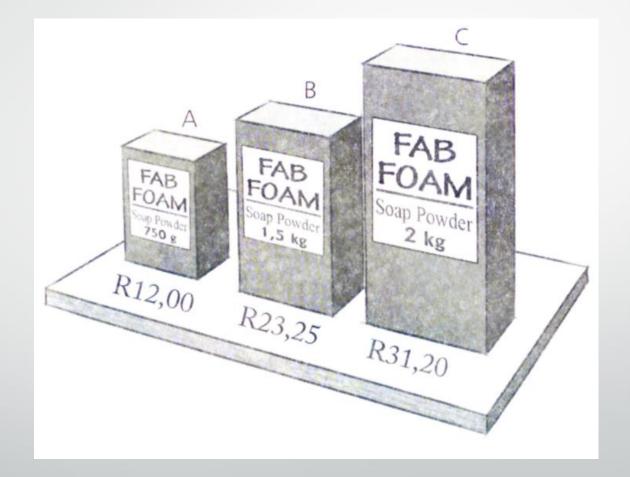
Content

- Density compares mass and volume.
 (the density of gold is 19,3 g/ cm³).
- Speed compares distance and time. (120km/h).
- Rate of pay often compares money and time.
 (R35/h).
- Petrol consumption compares volume and distance.

RATES AND DIRECT PROPORTIONS



- Cheese Muffins (makes 30)
550 g flour
50 ml baking powder
300 g grated cheese
750 ml milk





CLASS ACTIVITY

Use the diagrams in slide 4 to answer the following questions.	
1.1. Nkone has a recipe for 30 cheese muffins.	
She needs 50 muffins. How much of each ingredient will Nkone need?	(6)
1.2. How many litres of paint is required to cover a total area of 198 m^2 ?	(2)
1.3. Determine which container with soap powder is the best buy.	(5)

[13]

Rates and direct proportion.

- Solve the following questions.
- 1.1 511 000 tons of tomatoes with a value of R1 557.9 million were produced in 2011. Calculate the value of tomatoes per ton. (R3 048.73)
 - 1.2 North West province has a population of 3 509 953 people in an area of 140 882 km^2 . How many people will live in an area of 26 438 km^2 if the same rate is applied? (658 680 people)