

3055 BA SANGAM COLLEGE

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WORKSHEET 13

YEAR 09

SUBJECT: MATHEMATICS 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

Proportion

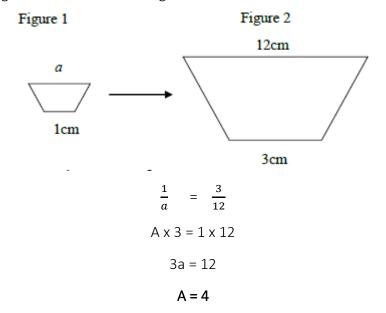
Objective:

- Define Proportion
- Calculate Proportions

Proportion is the comparing and equating of two ratios

Example 1

Figure 1 is enlarged to Figure 2. Work out the length of the side marked a.



Example 2

Two men made an investment in a business. Mr. Peters contributed \$10,000.00 and Mr. Thomas contributed \$6,000.00.

- (a) Express the two men's contributions as ratio in its simplest form.
- (b) If they were going to share the profit using the above ratio, how much would each man receive if their profit was \$ 9,000.00?

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[Answer]

(a) Mr. Peters: Mr. Thomas = 10000.00 : 6000.00

(Divide by 1000) 10 6

(Divide by 2) 3

(a) Mr. Peters share is $=\frac{5}{8} \times \$9000 = \5625 Mr. Thomas share is $=\frac{3}{8} \times \$9000 = \3375

Exercise 1

A square of length 6 cm was enlarged to 15cm. By what ratio was it increased?

(2 Marks)

Exercise 2

Two business men Mr. A and Mr. B invested a total of \$10,000.00 in a business. The ratio of the amount of their contributions was 3: 1. How much did Mr. B invest?

(2 Marks)