

## Worksheet on Fractions, Percentages, Decimals, Ratios, Exchange Rates

1. (a) Calculate the exact value of:

$$2.3^2 - \sqrt{3.4969}$$

- (b) Using a calculator or otherwise, calculate the value of

$$1\ 3.84 - 1.03 \times 6.22$$

2. Sweet n Sour tomato paste sells in two bottle sizes as shown below:

Bottle Size	Cost
265 ml	\$8.33
755 ml	\$19.20

Which bottle size is the better buy? Give a reason for your answer.

3. Zoxo blocks are made with buckets of gravel, sand and cement mixed in the ratio 5:3:2.

- (i) If 15 buckets of sand are used in a mixture, how many buckets of cement are needed?
- (ii) If a mixture with 30 buckets of gravel can produce 150 blocks, how many blocks can be produced using a mixture of 45 buckets of sand?

4. Calculate the value of  $11.7 - 2.45 \times 3.84 \div 1.5$ , stating your answer:

- (i) Exactly;
- (ii) correct to one decimal place;
- (iii) correct to three significant figures;

in scientific notation

5. Nadine's Travel Agency advertised the following vacation package to Grenada in the daily newspapers.

Nadine's Travel Agency	
Grenada Vacation Dream Package	
Air Fare	US\$356
Hotel Accommodation	US\$54 per night
Exchange Rate: US\$1.00 = EC \$2.75.	

- (i) Calculate the cost of the air fare in EC\$.
- (ii) Madge saved EC\$ 6 000. How many nights can Madge if she plans to use all of her savings on this dream vacation package.

6. In a bank US\$345 can be exchanged for BD\$600. Find:

- (i) How many BD\$ can be exchanged for \$1?
- (ii) How many US\$ is equivalent to BD\$610?

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