Dear Parents / Students

Due to the unprecedented situation, Knowledgeplus Training center is mobilized and will keep accompanying and supporting our students through this difficult time. Our Staff will be continuously, sending notes and exercises on a weekly basis through what's app and email. Students are requested to copy the notes and do the exercises on their copybooks. The answers to the questions below will be made available on our website on knowledgeplus.mu/support.php. Please note that these are extra work and notes that we are providing our students and all classes will be replaced during the winter vacation. We thank you for your trust and are convinced that, together, we will overcome these troubled times.

Knowledgeplus Training Center

Mathematics

Garde 8

Week 5

Notes and Exercise

Note:(All the Notes, Examples and Exercise are on the photos and Note:(Please copy all the Notes, Examples and Exercises on your copy book).

Mathematics Grade 8 Weeks Personal and Household Finance. Value Added Tax (VAT) A Value Added Tax (VAT) is a tax charged by the government on goods and services. The rate of VAT in Mauritius is 0115 10 1 ml flore is alle: 54 length Example 1 price of an article is Re 5000. The original that the VAT rate is 15%, find: Given (a) the amount paid as VAT (b) the amount paid for the article inclusive q VAT. 1) deminin is male Solution i and headsain to reade VAT=15% of the original price (a) Amount of VAT = 15 x Rs 5000 = Rs 750 I d hisothica in lange (b) Amount paid for article inclusive of VAT = RS 5000 , RS 750 = STASO RS 5750

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a lamase Examples price of a kettle is Rs 980, and the taxe rate is 15 y. Find the total price paid for the kettle inclusive price paid Solution Method Price before VAT = Rs 980 VAT = 15 % of the original price Amount of VAT = 15 x Rs 980 = Ro 147 000 Price of kettle inclusive of VAT-Rs 980 + RS147 = Rg 1127 methodolephonor Price before Valt VAT = 100%. (In term of percentage) Percentage of VAT = 15%. (In term of percentage) Price after VAT = 100% + 15%. (Interm of percentage) =115-10 " Price after VAT in rupees = 115 % × Rs 980 100 $Faundary = P_S 1127$

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Example3 The price of a Microwave, inclusive of VAT 15 Ps 9 2645 and the take rate is 15% find the price of the microwave without VAT. Solution Price of microwave including VAT = Rs 2645 VAT = 15% Hence 1159 _ Rs 2645 19, _____________ 10 availant allind to alt 100 40 -> Rs 2645 × 100 = Rs 2300 115 The price of the microvawe without VAT = 25 2300. Note: To find the price of an article of VAT (VAT at 159.) = 115 x Price without inclusive VAT 100 in report - HE - H. P. To find price of an article without VAT (VIAT of 159) - 100 x price after VAT

Attempt Question 1 to 6.

In questions 1 to 6 below, the VAT is taken at 15%.

- 1. Roshan's restaurant bill is Rs 9 800 without VAT.
- (a) Find the VAT.

(b) Find the total bill.

2. A refrigerator costs Rs 17 400 without VAT. Find the VAT paid on the refrigerator.

3. A shirt costs Rs 150 without the VAT. Find the price inclusive of VAT.

4. A dress costs Rs 1 600 without VAT. Find the price inclusive of VAT.

5. A suitcase costs Rs 2 300 inclusive of VAT. Find:

- (a) the amount of VAT.
- (b) the price of the suitcase without VAT.

6. The price of a car tyre inclusive of VAT is Rs 2 415. Find the price of the car tyre without VAT.

Percentage increase Example The price of a book is Rs 80. It increase by 10%. What is the new price? Solution Methodi Point to remember Original price = Rs 80 in en increase we add Percentage increase = 104. Value of the Encrease = 10 x Ps 80 - Rs 8. 100 -: New price = (Rs 80 + Rs s) = Rs 88 Methoda. Original price = 100 4. (In percentage) Percentage Encrease = 10%. New value in percentage = 10040 + 104 = 110 4, New price = 110 xRs 80 = Rs 88 100 When an article is increase by X90. You add xy, with the Looy, (xy, is any Number) when doing the meercise you can do method ! Ha or method 2

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Example Decrease 60 kg by 20% Solution Methodi Original Value = 60 kg Point to remember Percontage docrease = 20%. In deradocrease us Substruct Value of the decrease = 20 × 60 leg 100 = 12129 New value = (60-12) = 481cy Original value = Loo 4. Percentage decrease = 204. Present April -New value, in percentage = logi - 20%. = 804 New value, in kg = 80 × 60 kg = 48 kg 100 when doing the exercise you can method! or method 2

Attempt Question 1 to 5.

1. Increase:				
(a) 60 by 10 %	(b) Rs 250 by 5%	(c) 180 km by 50%	(d) 9 000 m by 0.5%	
				¢
2. Decrease:			×	
(a) 40 g by 5%	(b) 300 mL by 20%	(c) Rs 2 500 by 13%	(d) 3 600 kg by 1.5%	

- 3. Pravesh was asked to decrease 60 by 10%. He obtained 66 as answer. Is the answer correct? Justify your answer.
- 4. There is a special offer on a certain brand of washing machine powder where 1.2 kg of powder was offered for the price of 1 kg. Work out the percentage extra that is free.
- 5. In a sale, the price of a sofa set decreases by 30%. If the original price of the sofa set was Rs 32 500, find the sale price.

Example Original price (a) The price of a bottle of water increase prom Rs 20 to 28 22. What is the percentage increase in its price? (b) The price of a desert dessert decrease from Origined Rs 50 hu Rs 40. Wheet is the percentage prile decrease in its price Schehan (a) Increase in price is: Rs 22-Rs 20=2 Rs 20 _ 100% (ariginal price) R1 -0 1 ×100 20 Rs2 -> 2 x100 = 104. 20 (b) Decrease in price = 25 50 - Ro 40 = Ro 10 Rs 50 _ 600 4. (original price) RSI DE SO XIOUI Note: Parcontago Exercise = increas Rs - + L XIOO Note: Sd ROLOXLOO Percontage Increase - Increase XLOOV. Priles 50 Percentage Decrease = Decrease × 100% original price

Attempt Question 1 to 4.

- 1. A shopkeeper increased the price of an article from Rs 120 to Rs 200. Find the percentage increase in the price of the article.
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- 2. In a sale, the price of a book decreases from Rs 400 to Rs 250. Find the percentage decrease in the price of the book.
- 3. The price of an article decreases from Rs 280 to Rs 112. Find the percentage decrease.
- 4. Pascale's salary increases from Rs 45 000 to Rs 48 000. Find the percentage increase in her salary.