

Worksheet 4 / Percentages | Lower Secondary Stage (6-8)

1st Semester | 2023-2024

Subject: Math Objectives:

Chapter: 9

· to review how to calculate percentage increase and decrease.

Question 1: write whether the statements imply a percentage increase or decrease. Use the words "increase" or "decrease".

- a) A sale of 15% on shoes. (decrease
- b) A 6% raise on fuel prices. (increase
- c) An annual depreciation of a car's value is 5%. (decrease
- d) A total bill including 16% tax. (increase
- e) A laptop is marked-up up by 25%. (increwe
- f) A 4% drop in women population. (Lecrease

Question 2: To decrease something by 25% the multiplier you should use is

0.75. What multiplier should you use for an:

- a) An increase of 5%. _______ (100+5 = 105 % = 105 = 1.05)
- b) A decrease of 40%. _______ 0. 6
- c) A decrease of 200%. -\
- d) An increase of 7.5%. \.075
- e) An increase of 300%.
- f) A decrease of 13.5%. ___O. 865















Question 3: Solve the questions below:

- a) A new laptop has been marked up since last year by 25%. If the price last year was \$770, what is the cost of it this year?

 ANSWER: 125% $\frac{1}{2}$ $\frac{$
- b) There is a 12% sale on lipstick. If the original price is \$9.50, what is the price after sale?

 ANSWER: 88% 4 9.50 = 88% 9.50 = 88% 8.36
- c) My sports cards collection cost me \$342. Now it is worth 4% more. How much is it worth now?

 ANSWER: $104 \% 9 342 = 104 \times 342 = 355.68
- d) A few years ago I bought a car costing \$26,480. If I sell is now it will loose 35% of it's value. How much will the selling cost be?

 ANSWER: 65% of $26480 = 65 \times 26480 = 17212