

TOPIC: WHOLE NUMBERS (PERCENTAGES)**OUTCOMES:**

- Use you calculator
- Solve problems involving percentage
- Solve problems involving financial context

1. Calculate the following percentages. Write your answer correct to 2 decimal places.

1.1	5% of R190 $\frac{5}{100} \times 190 = R9.5$
1.2	15% of R180
1.3	30% of R25
1.4	15% of R340
1.5	60% of R75
1.6	4,5% of R880
1.7	9,5% of R50 $\frac{9.5}{100} \times 50 = R4.75$
1.8	12% of R17
1.9	8% of R56
1.10	5% of R76,40

2. Calculate the percentage increase and decrease. Write the answer correct to 2 decimal places.

- **INCREASE - become or make greater in size OR amount**
- **DECREASE – become or make smaller size OR amount**

2.1	Increase R350 by 10% $\frac{10}{100} \times 350 = R35$ $NEW\ AMOUNT = 350 + 35 = R385$
2.2	Increase R725 by 5%
2.3	Increase R340 by 17%
2.4	Increase R1 640 by 4,7%
2.5	Increase R3 555 by 5,25%
2.6	Decrease R84 by 5%
2.7	Decrease R960 by 17,5%
2.8	Decrease R705 by 42%
2.9	Decrease R2 990 by 14,5% $\frac{14.5}{100} \times 2990 = R433.55$ $NEW\ AMOUNT = 2990 - 433.55 = R2\ 556.45$
2.10	Decrease R7 454 by 3,5%

3 Calculate the following:

3.1	Julie-Ann earns a salary of R9 400 a month. She receives an increase of 9%. Calculate her new salary.
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3.2	A new car costs R78 500. After one year the car depreciates by 12.5%. What is the new value of the car?
3.3	The price of a coat was R185. During a sale the price is reduced by 25%. What is the new price of the coat?
3.4	A house is bought for R895 000. During the next year, the house increases in value by 28,3%. What is the value of the house after one year?
3.5	At the beginning of the New Year, a clothing store is going to increase the price of all its stock by 15 percent. Calculate the new price of a T – shirt, which currently costs R 120.

4 Calculate the following:

CHALLENGE YOURSELF – LEVEL 4 – COMPLEX QUESTIONS

4.1	An article with a price of R200 is sold at 20% discount. Due to festive season the shopkeeper provides an additional 50% discount on the discounted price. Find the NEW selling price of the article.
4.2	A shop sells 200 chocolate, vanilla and strawberry ice creams. 45% of the ice creams sold are vanilla and 30% are strawberry. How many chocolate ice creams are sold?
4.3	An animal park has Lions, Tigers and Zebras. 20% of the animals are Lions and half the animals are Zebras. If there are 120 animals at the park. How many Tigers are there?
4.4	A car travels 400 km on a full tank of petrol. A more efficient car can travel 30% further. How many km can the new car travel on a full tank of petrol?

4.5	In Atlantis, there is a 20% chance it will rain on any given day. How many days of would you expect it NOT to rain in 50 days.
4.6	A shopkeeper buys 15 rackets for R6 750. If he sells each racket at a 15% profit. Find the selling price on ONE racket.
4.7	In a group of 20 children, 25% are girls. How many boys are in the class?
4.8	In a survey of 300 adults, 15% did not know how to ride a bike. How many people can ride a bike?