1. **What is the future value of 17,000 TL on deposit for 6 years at 8% simple interest?**
2. 13,101 TL
3. 21,500 TL
4. **25,160 TL**
5. 9,235 TL

=17000+(17000\*6\*0,08)

=25,160 TL

1. **What is the eleven years later future value of 1,350 TL that is deposited today 8% compounded annually?**
2. **3,147.71 TL**
3. 1,258.79 TL
4. 1,267.11 TL
5. 1,542.44 TL

=FV(8%;11;;-1350)

= 3,147.71 TL

1. **A rate of 5% for 7 years on a principal balance of 475 TL. Interest earned?**
2. 668,37 TL
3. 86,38 TL
4. 337,57 TL
5. **193,37 TL**

=FV (5%;7;;-475)= 668,37

668,37 – 475 = 193,37 TL

1. **Suppose you had a relative deposit 10 TL at 5.5% interest 200 years ago. How much would the investment be worth today?**
2. **447,189.84 TL**
3. 556,876.99 TL
4. 350,675 TL
5. 789,33 TL

=FV(5,5%;200;;-10)

= 447,189.84 TL

1. **Suppose your company expects to increase unit sales of widgets by 15% per year for the next 5 years. If you currently sell 3 million widgets in one year, how many widgets do you expect to sell in 5 years?**
2. 5,789,807 TL
3. **6,034,071.56 TL**
4. 1,491,530.21 TL
5. 7,805,765.97 TL

=FV(15%;5;;-3000000)

= 6,034,071.56 TL

1. **Suppose you need 10,000 TL in one year for the down payment on a new car. If you can earn 7% annually, how much do you need to invest today?**
2. 10,765.65 TL
3. 987,67 TL
4. 555,98 TL
5. **9,345.79 TL**

=PV(7%;1;;10000)

= 9,345.79 TL

1. **You want to begin saving for your daughter’s college education and you estimate that she will need 150,000 TL in 17 years. If you feel confident that you can earn 8% per year, how much do you need to invest today?**
2. **40,540.34 TL**
3. 34,768 TL
4. 555,002.71 TL
5. 674,98 TL

=PV(8%;17;;150000) = 40,540.34 TL

1. **Your parents set up a trust fund for you 10 years ago that is now worth 19,671.51 TL. If the fund earned 7% per year, how much did your parents invest?**
2. 11,000 TL
3. 5,585 TL
4. **10,000 TL**
5. 38,696.83 TL

=PV(7%;10;;19671,51) = 10.000 TL

1. **Invest 500 TL at 8% per year over 15 years. How much would you have at the end of 15 years using compound interest?**
2. 1,987.11 TL
3. **1,586.08 TL**
4. 455,78 TL
5. 157,62 TL

=FV(8%;15;;-500)

= 1,586.08 TL

1. **Invest 500 TL at 8% per year over 15 years. How much would you have using simple interest?**
2. 47,58 TL
3. 1,157.98 TL
4. 157,62 TL
5. **1,100 TL**

=500+(500x8%x15) = 1,100 TL

1. **You need 15,000 TL in 3 years. You can earn 6% annually, how much do you need to invest today?**
2. **12,594.29 TL**
3. 17,865.27 TL
4. 15,765.56 TL
5. 11,345.76 TL

=PV(6%;3;;15000)

= 12,594.29 TL

1. **Today, you deposit 2,400 TL in a bank account that pays 4 percent simple interest. How much interest will you earn over the next 5 years?**
2. 96.00 TL
3. 101.15 TL
4. **480.00 TL**
5. 492.16 TL

Interest = 2,400 × 0.04 × 5 = 480 TL

1. **Your parents just gave you a gift of 15,000 TL. You are investing this money for 12 years at 5 percent simple interest. How much money will you have at the end of the 12 years?**
2. 15,750 TL
3. 16,000 TL
4. 17,375 TL
5. **24,000 TL**

Future value = $15,000 + ($15,000 × 0.05 × 12) = $24,000

1. **Elaine has just received an insurance settlement of 25,000 TL. She wants to save this money until her daughter goes to college. If she can earn an average of 6.5 percent, compounded annually, how much will she have saved when her daughter enters college 8 years from now?**
2. **41,374.89 TL**
3. 40,929.02 TL
4. 41,899.60 TL
5. 42,000.00 TL

=FV(6,5%;8;;-25000)

= 41,374.89 TL

1. **You and your brother are planning a large anniversary party 3 years from today for your grandparents' 50th wedding anniversary. You have estimated that you will need 2,500 TL for this party. You can earn 3.5 percent compounded annually on your savings. How much would you and your brother have to deposit today in one lump sum to pay for the entire party?**
2. 2,199.74 TL
3. **2,254.86 TL**
4. 2,308.16 TL
5. 2,334.90 T

= PV (3,5%;3;;2500)

= 2,254.86 TL

1. **You would like to buy a house that is currently on the market at 85,000 TL but you cannot afford it right now. However, you think that you would be able to buy it after 4 years. If the expected inflation rate as applied to the price of this house is 6% per year, what is its expected price after four years?**
2. **107,310.54 TL**
3. 67,327.96 TL
4. 99,876.12 TL
5. 54,643,78 TL

=FV(6%;4;;-85000) =107,310.54 TL

1. **Assume that you deposit 1,000 TL in an account earning 7% simple interest for 2 years. What is the accumulated interest at the end of the 2nd year?**
2. 873,44 TL
3. 155 TL
4. **140 TL**
5. 1,144.90 TL

Simple interest = 1000x7%x2 = 140 TL

1. **Happy Harry has just bought a scratch lottery ticket and won 10,000 TL. He wants to finance the future study of his newly born daughter and invests this money in a fund with a maturity of 18 years offering a promising yearly return of 6%. What is the amount available on the 18th birthday of his daughter?**
2. 3,503.44 TL
3. **28,543.39 TL**
4. 32,876.12 TL
5. 5,789.88 TL

=FV(6%;18;;-10000) =28,543.39 TL

1. **John needed a 1550 TL in 4 years to be off some debt. How much should John put in a saving account that earns 8% today?**
2. 2,082.57 TL
3. 2,108.75 TL
4. 1,792.72 TL
5. **1,139.30 TL**

=PV(8%;4;;1550) = 1,139.30 TL

1. **Bank pays an annual interest of 6% on 9 year CDs and you deposit 15,000 TL. What is your balance two years later?**
2. 25,789.12 TL
3. 23,803.11 TL
4. **25,342.18 TL**
5. 24,7445.56 TL

=FV (6%;9;;-15000) = 25,342.18 TL

1. **You are purchasing a car. You are scheduled to make 5 annual installments of 12,000 TL per year. Given a rate of interest of 12%, what is the price you are paying for the car?**
2. **43,257.31 TL**
3. 21,148.10 TL
4. 6,809.12 TL
5. 15,645.11 TL

=PV(12%;5;12000)

= 43,257.31 TL

1. **You are able to put 1,500 TL in the bank now, and another 1,800 TL in 1 year. If you earn an 6% rate of interest, how much will you be able to spend on a computer in 2 years?**
2. 2,022.48 TL
3. **3,593.40 TL**
4. 1,685.40 TL
5. 3,550.12 TL

FV1 = FV(6%;1;;-1800) = 1,908.00

FV2 =FV(6%;2;;-1500) = 1,685.40

Total FV = 3,5493.40 TL

1. **What is the present value of the following payment stream, discounted at 8% annually: 1,000 TL at the end of year 1, 2,000 TL at the end of year 2, and 3,000 TL at the end of year 3?**
2. **5,022.10 TL**
3. 5,144.03 TL
4. 5,423.87 TL
5. 5,520.00 TL

PV1 =PV(8%;1;;1000)= 925,93

PV2 =PV(8%;2;;2000) = 1,714.68

PV3 =PV(8%;3;;3000) = 2,381.50

Total PV = 5,022.10 TL

1. **What is the future value of Peter Minuit’s 56 TL investment if invested at 6% for 157 years?**
2. **526,270.31 TL**
3. 550,987.12 TL
4. 450,877 TL
5. 678,232 TL

=FV(6%;157;;-56)

= 526,270.31 TL

1. **Suppose that a person deposits 15,000 TL today and 8,000 TL at the end of each year in a savings account for the next four years. And at the end of the fourth year in order to withdraw a total amount of 55,760 TL. What the interest rate the bank has to pay compounded annually?**
2. 12%
3. 5%
4. **7%**
5. 3%

= RATE(4;-8000;-15000;55760) = 7%