SUPERANNUATION

Example: Mickey pays \$1000 into a superannuation fund at the beginning of each year. If the interest rate is 8% compounded annually, what will Mickey's superannuation be worth after 20 years.

Answer: The first \$1000 earns 8% compound interest for 20 years, the second \$1000 earns 8% compound interest for 19 years and so on.

Exercise:

- Q.1. Shafia invested \$1000 in a superannuation fund at the beginning of each year for 10 years at an interest rate of 6% per annum, compounded annually. What was her investment worth at the end of 10 years?
- Q.2. Mugsey invested \$1000 in a superannuation fund at the beginning of each year for 10 years at an interest rate of 6% per annum, compounded monthly. What was his investment worth at the end of 10 years?
- Q.3. Juan paid \$6000 into a superannuation fund every year. Interest was 9% per annum, compounded annually. What was his superannuation worth when he retired after 40 years?
- Q.4. Shakeeba paid \$500 into a superannuation fund every month. Interest was 9% per annum, compounded monthly. What was her superannuation worth when she retired after 40 years?
- Q.5. Amanda paid \$100 per week into a superannuation fund. The interest rate was 10.4% per annum, compounded weekly. After 10 years Amanda transferred her superannuation to a new fund because she changed jobs. How much superannuation did Amanda transfer?
- Q.6. Wafaa paid \$800 per month into a superannuation fund for 15 years. The interest rate was 8% per annum, compounded monthly. After 15 years, Wafaa left her job and didn't make any more payments to her superannuation, but had to wait a further 20 years before she could collect her superannuation. What was Wafaa's superannuation worth at the end of the 35 years?

Answers: