

Year 10 Mathematics Financial Maths Practice Test 1

Name			

- 1 Find the simple interest charged on \$860 at 16% pa for 5 years?
- 2 What is the simple interest on \$2400 at 8% pa for 5 months?
- 3 Find the simple interest on \$900 for 240 days at a rate of 11% p.a
- 4 What is the simple interest on \$1950 for 7 months at 1.2% per months?
- 5 Betty invests \$2000 for 3 years at 3% p.a. simple interest. What is the value of her investment at the end of that 3 years?
- 6 After 3 years an investment of \$1000 has earned \$120 in interest what is the annual interest rate (correct to one decimal place)
- 7 For how long will \$20 000 need to be invested to earn \$150 in interest, if the interest rate is 3.5% p.a?
- 8 Jim paid back \$12 080 on a \$9000 loan over 3 years. Find the simple interest rate p.a (correct to 1 d.p)
- 9 An amount of \$10 000 is invested at 4% p.a compounded annually. What is the compound interest earned?

10 Compound Interest Table Total Amount (A) of \$1 investment											
n	1.5%	4.0%	4.5%	5.0%	5.5%	6.0%	7.0%				
1	1.015000	1.040000	1.045000	1.050000	1.055000	1.060000	1.070000				
2	1.030225	1.081600	1.092025	1.102500	1.113025	1.123600	1.144900				
3	1.045678	1.124864	1.141166	1.157625	1.174241	1.191016	1.225043				
4	1.061364	1.169859	1.192519	1.215506	1.238825	1.262477	1.310796				
5	1.077284	1.216653	1.246182	1.276282	1.306960	1.338226	1.402552				
6	1.093443	1.265319	1.302260	1.340096	1.378843	1.418519	1.500730				
7	1.109845	1.315932	1.360862	1.407100	1.454679	1.503630	1.605781				
8	1.126493	1.368569	1.422101	1.477455	1.534687	1.593848	1.718186				
9	1.143390	1.423312	1.486095	1.551328	1.619094	1.689479	1.838459				
10	1.160541	1.480244	1.552969	1.628895	1.708144	1.790848	1.967151				
11	1.177949	1.539454	1.622853	1.710339	1.802092	1.898299	2.104852				
12	1.195618	1.601032	1.695881	1.795856	1.901207	2.012196	2.252192				
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Use the table above

- a) to calculate the total amount if \$1800 is invested at 5.5% p.a compounded annually for 7 years
- b) to find the compound interest earned when \$3500 is invested at 8% p.a compounded twice a year for 6 years.
- c) to calculate the compound interest earned if \$6150 is invested at 6% p.a compounded quarterly for 2 years

- 11 A principal of \$1500 is invested at 2% p.a compounded annually over 3 years. What is:
 - a) the value of the investment after 3 years
 - b) the compound interest earned?
- 12 An amount of \$2700 is invested at 5% p.a with the interest compounded quarterly. Calculate the total amount of the investment after 3 years and the interest earned over 3 years
- 13 A teachers professional library depreciates at a rate of 15% p.a. If Mr Dobmaths library is currently valued at \$6000, what will be its value in 5 years? What is the depreciation over this time?
- 14 A Plasma TV originally valued at \$890, depreciates at 10% p.a What percentage of the original value remains after 6 years?
- 15 A computer system which cost \$3400 depreciates at a rate of 12% p.a
 - a) Find the depreciated value of the system after 6 years (to the nearest dollar)
 - b) Express the depreciated value as a percentage of the cost price (to 1 d.p
- 16 Jack and Jill went to GG Hi Fi to purchase a TV costing \$3800. They were given a 10% discount for paying with cash. How much did they pay for the TV?
- 17 A surround sound system costing \$740 is purchased on lay-by. A 5% deposit is paid, with the balance paid off over 4 months. Calculate the size of each monthly payment.