WORKSHEET

Name: ..... Class: .....

Date: .....

MARK ____ / 34

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 R1 500 is deposited monthly for 20 years at 9% p.a. compounded monthly. Determine the future value. **(3)**

2 How much was actually deposited in total in that annuity? **(2)**

3 A bond of R800 000 is repaid monthly over 20 years at 9% p.a. compounded monthly. Determine the monthly instalment. **(4)**

4 Determine the outstanding balance on that bond after 5 years. **(4)**

5 Write down the value of i for 9% p.a. compounded monthly. **(1)**

6 Which formula do you use when saving towards a future amount? **(1)**

7 Which formula do you use for a loan taken out today? **(1)**

8 How is the outstanding balance on a loan calculated? **(2)**

9 How long will it take R20 000 to double at 8% p.a. compounded annually? Give your answer in whole years. **(4)**

10 A vehicle costing R450 000 depreciates at 15% p.a. on a reducing balance. Calculate its scrap value after 4 years. **(3)**

11 In a sinking-fund question, state the THREE amounts you must calculate before working out the monthly payment. **(3)**

12 Option A pays 9,6% p.a. compounded monthly; Option B pays 9,9% p.a. compounded annually. Which is better? Show your reasoning. **(4)**

13 Why can a loan with a lower monthly instalment cost you more overall? **(2)**

TOTAL: 34 marks

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