

Name _____

Date _____

VERTEXMATH • BUILD YOUR OWN • MCR3U GRADE 11

Financial Applications: your summary

1 Fill in every blank from memory. No notes.

2 Check it against the Unit Summary in a different colour.

3 Tick ✓ or X on each card. Every X is a topic to review.

vertexmath.ca
Worksheet, answers &
this cheat sheet



Which formula?

Write the tool for each case.

\$5000 now,
worth? in 10 yr

Need \$9000 in 4
yr

\$250 every
month

1 Simple interest

☒ ☒

1 \$2200 at 3% simple interest for 18 months. Find the interest.

2 \$900 earns \$54 at 4% simple interest. How long?

6 Financial decisions

☒ ☒

7 Prize: \$50 000 now, or \$12 000 a year for 5 years at 6% compounded annually. Which is worth more today?

2 Compound interest

☒ ☒

3 \$5000 at 5.4% compounded monthly for 6 years. Find the amount.

3 Present value

☒ ☒

4 How much must be invested now to have \$10 000 in 8 years at 5% compounded semi-annually?

4 Annuities: future value

☒ ☒

5 Save \$150 a month for 4 years at 3.6% compounded monthly. Find the future value.

5 Annuities: present value and loans

☒ ☒

6 \$24 000 loan over 6 years at 6.6% compounded monthly. Find the payment.

My traps Your three most likely mistakes, and how you will catch each one.

1 _____ 2 _____ 3 _____

Answers to the numbered prompts. Cover this strip until you are done.
1 $2200(0.03)(1.5) = \$99$
2 $t = 54/(900 \times 0.04) = 1.5$ years
3 $5000(1.0045)^{72} \approx \$6908.21$
4 $10000(1.025)^{-16} \approx \$6736.25$
5 $150(1.0038)^{84} - 1/0.003 \approx \$7731.76$
6 $24000(0.0055)/(1 - 1.0055^{-72}) \approx \$404.58$
7 $PV = 12000(1 - 1.06^{-5})/0.06 \approx \$50$
548.37: the payments, slightly