



NAME.....

Lightning Ridge Central School

Mathematics Standard 2020 Student Program

This is the minimum work expected to be completed by each student for this topic. As each exercise is concluded, the date and signature must be shown in the relevant column.

This agreement is to be signed by the student when completed and returned to teacher for grading.

Failure to complete any section of this agreement may result in a Board of Studies 'N' warning letter sent to the parents/guardian of this student. Please do not hesitate to contact the school if any difficulties arise.

This work is to be completed by, **6/4/20** It may be submitted early if completed.

A4.1 – Simultaneous linear equations – Chapter 5 – Due 6/4/20

This topic will develop your understanding of the use of simultaneous linear equations in solving practical problems.

Outcomes addressed

- Graph linear functions.
- Interpret linear functions as models of physical phenomena.
- Develop linear equations from descriptions of situations.
- Solve a pair of simultaneous linear equations using graphical methods.
- Finding the point of intersection between two straight-line graphs.
- Develop a pair of simultaneous linear equations to model a practical situation.
- Solve practical problems by modelling with a pair of simultaneous linear functions.
- Apply break-even analysis to solve simple problems.

Ensure you read all examples in the text book in addition to all explanations.

Topic notes are expected to be completed alongside the completed textbook questions.

This is the MINIMUM amount of work required, review questions and examination questions as well as extension exercises are also recommended.

Skills, knowledge and understanding acquired	Work to be completed Class	Sign & Date
Linear Functions	Pg 194 Ex 5A Q2ad 4ace 5ace 6ac 7ace 10ac	
Linear Models	Pg Ex 5B Q3 4 5 8 11	
Simultaneous equations - graphically	Pg205 Ex 5C Q1 3 5ac 7ac	
Simultaneous equations - algebraically	Pg209 Ex 5D Q1ac 2ac 3ac 5ac 6ac 7ac	
Simultaneous equation models	Pg213 Ex 5E Q1 3 5 7	
Break-even analysis	Pg217 Ex 5F Q1a 2 3 4 6	
Review	Pg222	

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Student

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Teacher Sighted