

Algebra Unit Review

- Do your work on a separate sheet of paper.
- When using the MMS 7 PDF, use the page number on the book, not the PDF pages. For example Page 234 is found on Page 248 according to the PDF, but Page 234 from the textbook says Page 234 on the bottom.
- Also there is an answer key at the back of the textbook starting page 360 of the PDF which is page 346 of the textbook. You will need to find the page number for the questions you are doing for example the answer key for page 234 is found on page 380 of the PDF which is page 366 of the textbook.

1. Modelling Algebra with Scales

- Draw your scales (Remember variables are represented with a box, numbers with a circle)
- You must keep the scale balanced; what you do to one side you must do to the other.
- Remember to verify.
- Practice Questions:

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- Page 229 #2
- Page 236 #2
- Page 249 #4
- Page 255 #17

2. Solving One Step Equations with Algebra

- Isolate the variable (get x by itself)
- Do opposite operations (- is opposite of +) (x is opposite of \div)
- Remember what you do to one side, you must do to the other.
- Verify (write your original equation, substitute, show all math steps following BEDMAS, get left and right side equal)

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- Page 234 #2
- Page 243 #1, 2(a,b,c,d,e,f)
- Page 250 #14(a,b,c,d,e)
- Page 251 #1

3. Solving Two Step Equations with Algebra

- Follow SAMDEB (start with adding and subtracting)
- Isolate the variable (get x by itself)
- Do opposite operations (- is opposite of +) (x is opposite of \div)
- Remember what you do to one side, you must do to the other.
- Verify (write your original equation, substitute, show all math steps following BEDMAS, get left and right side equal)

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- Page 238 #1c

- Page 243 #2(g,h)
- Page 250 #14f
- Page 251 #1d

4. Expressions from Words

- Identify the key word for your operation
- Choose a variable
- Write your expression
- Solve if necessary

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- Page 224 #4, 5, 6, 7
- Page 229 #3
- Page 248 #2

5. Word Problem with Algebra

- Write your let statement
- Write your knowns
- Write your equation
- Solve
- Verify
- Final answer in a sentence.

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- Page 239 #7
- Page 244 #6,7
- Page 249 #6
- Page 251 #4,5

6. Solve a multistep algebraic equation *Exceeding Expectations Question

- This will be a mixture of the three step equation types
 - Algebra Worksheet 3: Three Step Equations