

Important Concepts . . .

# Preview Review



**Mathematics    Grade 7**  
**W2 - Quiz**

## Important Concepts of Grade 7 Mathematics

W1 - Lesson 1 .....	Divisibility Rules
W1 - Lesson 2 .....	Decimal Numbers
W1 - Lesson 3 .....	Fractions
W1 - Lesson 4 .....	Improper Fractions, Mixed Numbers, Percents, and Decimals
W1 - Lesson 5 .....	Integers, Number Lines, and Sequencing
W1 - Quiz	
W2 - Lesson 1 .....	Table of Values and Graphing Linear Equations
W2 - Lesson 2 .....	Modeling Expressions, Equations, and the Preservation of Equality
W2 - Lesson 3 .....	Algebra and Linear Equations
W2 - Lesson 4 .....	Statistics
W2 - Lesson 5 .....	Circle Graphs and Calculating Probability
W2 - Quiz	
W3 - Lesson 1 .....	Circles
W3 - Lesson 2 .....	Area of Triangles and Parallelograms
W3 - Lesson 3 .....	Line Segments
W3 - Lesson 4 .....	Parts and Plotting on a Cartesian Plane
W3 - Lesson 5 .....	Transformations
W3 - Quiz	

## Materials Required

Math Set  
Calculator

**No Textbook  
Required**

**This is a stand-  
alone course.**

Mathematics Grade 7  
Version 6  
Preview/Review W2 - Quiz  
ISBN 1-894894-75-8

Publisher: Alberta Distance Learning Centre  
Written by: Sandy  
Reviewed by: Barb Phillips

Project Coordinator: Donna Silgard  
Preview/Review Publishing Coordinating Team:  
Laura Renkema and Nicole McKeand



Alberta Distance Learning Centre has an Internet site that you may find useful. The address is as follows: <http://www.adlc.ca>

*The use of the Internet is optional. Exploring the electronic information superhighway can be educational and entertaining. However, be aware that these computer networks are not censored. Students may unintentionally or purposely find articles on the Internet that may be offensive or inappropriate. As well, the sources of information are not always cited and the content may not be accurate. Therefore, students may wish to confirm facts with a second source.*

### ALL RIGHTS RESERVED

Copyright © 2010, by Alberta Distance Learning Centre, 4601-63 Avenue, Barrhead, Alberta, Canada, T7N 1P4. Additional copies may be obtained from Alberta Distance Learning Centre.

*No part of this courseware may be reproduced or transmitted in any form, electronic or mechanical, including photocopying (unless otherwise indicated), recording, or any information storage and retrieval system, without the written permission of Alberta Distance Learning Centre.*

*Every effort has been made both to provide proper acknowledgement of the original source and to comply with copyright law. If cases are identified where this effort has been unsuccessful, please notify Alberta Distance Learning Centre so that appropriate corrective action can be taken.*

**IT IS STRICTLY PROHIBITED TO COPY ANY PART OF THESE MATERIALS UNDER THE TERMS OF A LICENCE FROM A COLLECTIVE OR A LICENSING BODY.**

# Preview/Review Concepts for Grade Seven Mathematics



*W2 - Quiz:*



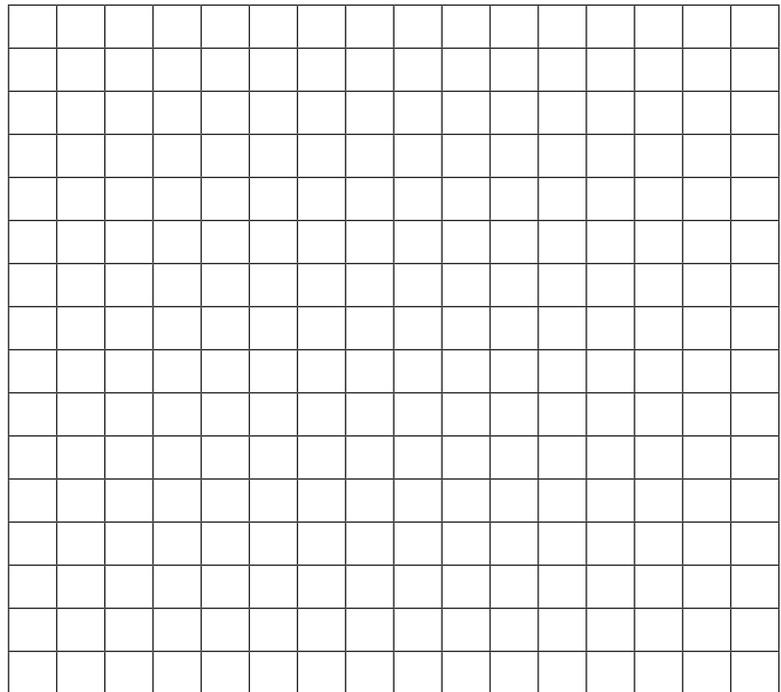
**Value 51 W2 - Quiz**

1. Danny started with \$250 in his bank account added another \$20 each week.

② a. What is the pattern relation that would describe the amount of money in the bank for  $n$  weeks?

⑩ b. Complete a table of values for this relation, and graph the relation.

Week ( $n$ )	Money (\$)
1	
2	
3	
4	
5	



② c. After 25 weeks, how much money would Danny have in the bank?

2. Frances helps his grandparents at their store. He gets paid \$5 an hour and \$10 bonus anytime he works more than 2 hours a day.

② a. Write an expression to represent his earnings if he works more than two hours a day.

② b. How much does Frances make if he works for 4 hours?

② c. 1.5 hours?

④ 3. Evaluate the expression

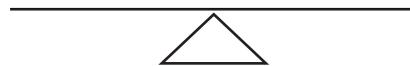
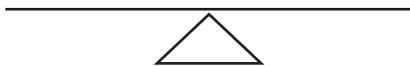
a.  $3a + 6b$  for  $a = 2$  and  $b = 6$ .

b.  $2(a - 3) + b$  for  $b = 5$  and  $a = 7$ .

④ 4. Model the equation and the solution using a balance scale model

a.  $5x + 3 = 8$

b.  $4x + 2 = 10$



- 3 5. Model **and** solve the equation using Algebra tiles

$$x - 7 = -4$$

Left side:

Right side



- 2 6. Solve and verify, showing all steps.

$$8n + 2 = 26$$

7. Find the mean of 56, 83, 172, 44, 67, and 47

- 2 a. including the outlier

- 2 b. without the outlier

- ② 8. Find the mode of 85, 77, 79, 84, 85, 77, 90, 91, 93, 97, 85
- ② 9. In a science project, 12 plant heights were recorded at: 12cm, 10cm, 14 cm, 17 cm, 13cm, 14cm, 18cm, 17cm, 16cm, 22cm, 19cm, and 20cm. If one of the plants died so it was not included in the project. If the new median is 16cm which plant height could have been eliminated?
10. A box has 3 red blocks, 7 yellow blocks, and 5 green blocks. If the blocks are replaced each time, what is:
- ② a.  $P(\text{red}) =$
- ② b.  $P(\text{red or yellow}) =$
- ② c.  $P(\text{red and green}) =$
- ① d.  $P(\text{pink}) =$
- ③ 11. Darcy has two different colours of pairs of socks: one black and one orange. He has three pairs of shoes: one tan, one black, and one white. Use a tree diagram to show all the different combinations he can make.





Printed on 10%  
Post-Consumer  
Recycled Paper  
Please Recycle

