

*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

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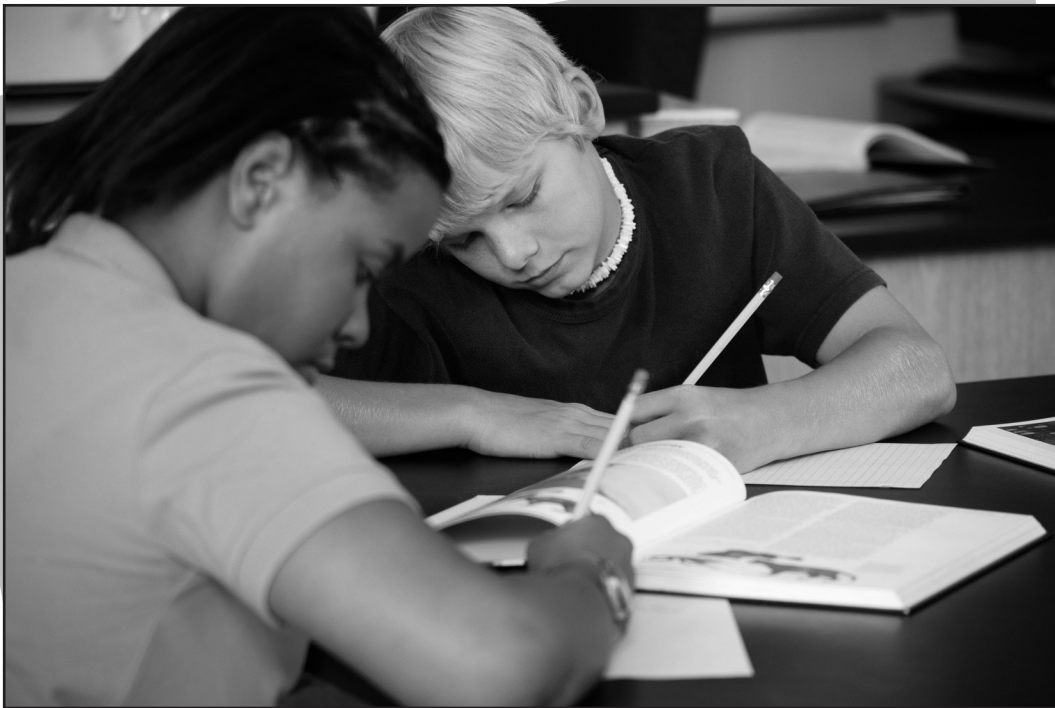
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# **Preview/Review Concepts for Grade Seven Mathematics**



***W2 - Quiz:***





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.







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