

Important Concepts . . .

Preview Review



Mathematics Grade 7 TEACHER KEY
W1 - 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
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Preview/Review W1 - Quiz
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Preview/Review Concepts for Grade Seven Mathematics

Teacher Key



W1 - Quiz:

Introductory Information for Teachers

Preview/Review courses are aimed mainly at students who have completed the regular course but who need to review some of the material before beginning the next grade. Other students may find Preview/Review courses useful in preparing for the new concepts they will study in their next grade.

No Preview/Review course is intended to replace the regular course because each covers only what the writers have decided are the top 15 concepts from the Program of Studies for that course.

Preview/Review materials are intended for use by teachers and students in one-subject and one-grade classrooms. This Preview/Review course contains fifteen lessons in three sections. Each section has five lessons. A short quiz is provided at the end of each section to test student knowledge of the material studied. In a classroom the course will likely be completed in three weeks.

This Preview/Review course is written to be stand-alone. There is no textbook required.

Value **W1 - Quiz**
44

- 8 1. Complete the chart. Put a (✓) if the number is divisible, put a (✗) if not.

	2	3	4	5	6	8	9	10
4410	✓	✓	✗	✓	✓	✗	✓	✓
35	✗	✗	✗	✓	✗	✗	✗	✗
743	✗	✗	✗	✗	✗	✗	✗	✗

- 2 2. Explain, using divisibility rules, how you know the number 9532 is a multiple of 4, but not a multiple of 8?

*Divisible by 4: 32 divides by 4 evenly.
Not divisible by 8: 532 does not divide by 8 evenly.*

- 3 3. A contest has the following skill testing question:

$$4 \times (5.1 - 2.1) - 10$$

Jim says the answer is 8.3, Mary says the answer is 2. Whose answer is correct?

$$4 \times (5.1 - 2.1) - 10$$

$$4 \times (3) - 10$$

$$12 - 10$$

$$2$$

Mary has the correct answer.

- 3 4. Ryan is opening a restaurant. He has 27 tables and wants to cover them with a table cloth. If each table cloth costs \$5.98, how much will Ryan have to spend to cover all his tables?

$$\begin{array}{r} 5.98 \\ \times 27 \\ \hline 4186 \\ \underline{11960} \\ 161.46 \end{array}$$

Ryan will need to spend \$161.46.

- 3 5. Which is greater $\frac{3}{4}$ or $\frac{5}{6}$?

$$\frac{2}{4} = \frac{9}{12}$$

$$\frac{5}{6} = \frac{10}{12} \quad \frac{5}{6} \text{ is greater}$$

6. Solve.

3 a. $1\frac{2}{8} + 4\frac{1}{3} = 1\frac{6}{24} + 4\frac{8}{24} = 5\frac{14}{24} = 5\frac{7}{12}$

3 b. $3\frac{3}{4} - 1\frac{3}{8} = 3\frac{6}{8} - 1\frac{3}{8} = 2\frac{3}{8}$

- 5 7. Sam is making a pizza. If $\frac{2}{5}$ of the pizza has cheese, $\frac{2}{8}$ has pepperoni, $\frac{1}{4}$ pizza sauce, and the remainder has mushrooms. What fraction represents the mushrooms?

$$\frac{2}{5} + \frac{2}{8} + \frac{1}{4} = \frac{16}{40} + \frac{10}{40} + \frac{10}{40} = \frac{36}{40} = \frac{9}{10}$$

$$\frac{10}{10} - \frac{9}{10} = \frac{1}{10}$$

$\frac{1}{10}$ of the pizza has mushrooms

- 3 8. Ginny's soccer team won 7 out of 12 games. What percent of games did her team win?

$$(7 \div 12) \times 100 = 58\%$$

Her team won 58% of their games.

- 6 9. A pair of hockey skates usually costs \$299.98. Hockey World sells a pair on sale for 35% off. Dan's Hockey Outlet is selling the same pair at 15% off, and an extra 20% if you buy on a Saturday. Which store would have the lowest price?

Hockey World

$$299.98 \times 35\% = 104.99$$

$$299.98 - 104.99 = \$194.99$$

Dan's Hockey Outlet

$$299.98 \times 15\% = 45$$

$$299.98 - 45 = 254.98$$

$$254.98 \times 20\% = 51$$

$$254.98 - 51 = \$203.98$$

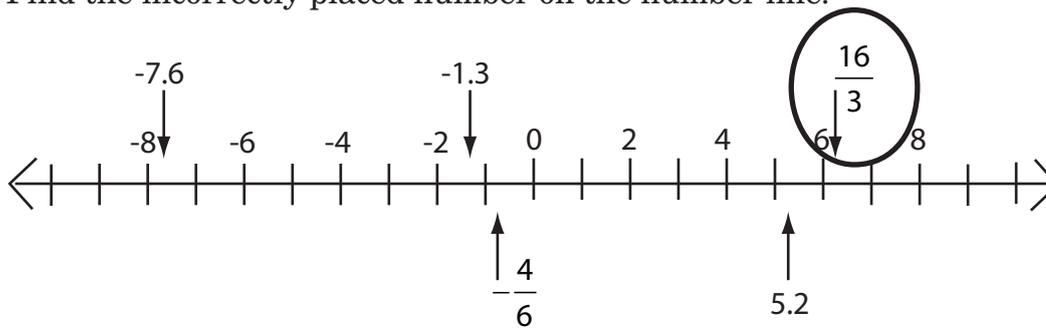
Hockey world has the lower price.

- ③ 10. When Brad left for school in the morning, the temperature was -11°C . If the temperature rose 12°C in the afternoon, but dropped 7°C by the evening, what is the temperature now?

$$-11 + 12 - 7 = -6$$

The temperature is -6°C

- ② 11. Find the incorrectly placed number on the number line.





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