

Important Concepts . . .

Preview Review



Mathematics Grade 6 TEACHER KEY

W1 - Quiz

Important Concepts of Grade 6 Mathematics

W1 - Lesson 1	Basic Facts, Basic Operations, and Integers
W1 - Lesson 2	Place Value, Whole Numbers, Decimals, and Common Fractions
W1 - Lesson 3	Improper Fractions and Mixed Numbers
W1 - Lesson 4	Ratios and Percents
W1 - Lesson 5	Number Operations with Decimals
W1 - Quiz	
W2 - Lesson 1	Factors, Multiples, and Prime Factorizations
W2 - Lesson 2	Metric Measurement
W2 - Lesson 3	Perimeter and Area
W2 - Lesson 4	Surface Area and Volume
W2 - Lesson 5	Working with Angles and Drawing Objects and Shapes
W2 - Quiz	
W3 - Lesson 1	Transformations
W3 - Lesson 2	Bar Graphs, Line Graphs, and Circle Graphs
W3 - Lesson 3	Collecting and Analyzing Data
W3 - Lesson 4	Number Patterns, Magic Squares, and Problem Solving
W3 - Lesson 5	Probability and Outcomes
W3 - Quiz	

Materials Required: A textbook is not needed. This is a stand-alone course.

Mathematics Grade 6

Version 5

Preview/Review W1 - Quiz TEACHER KEY

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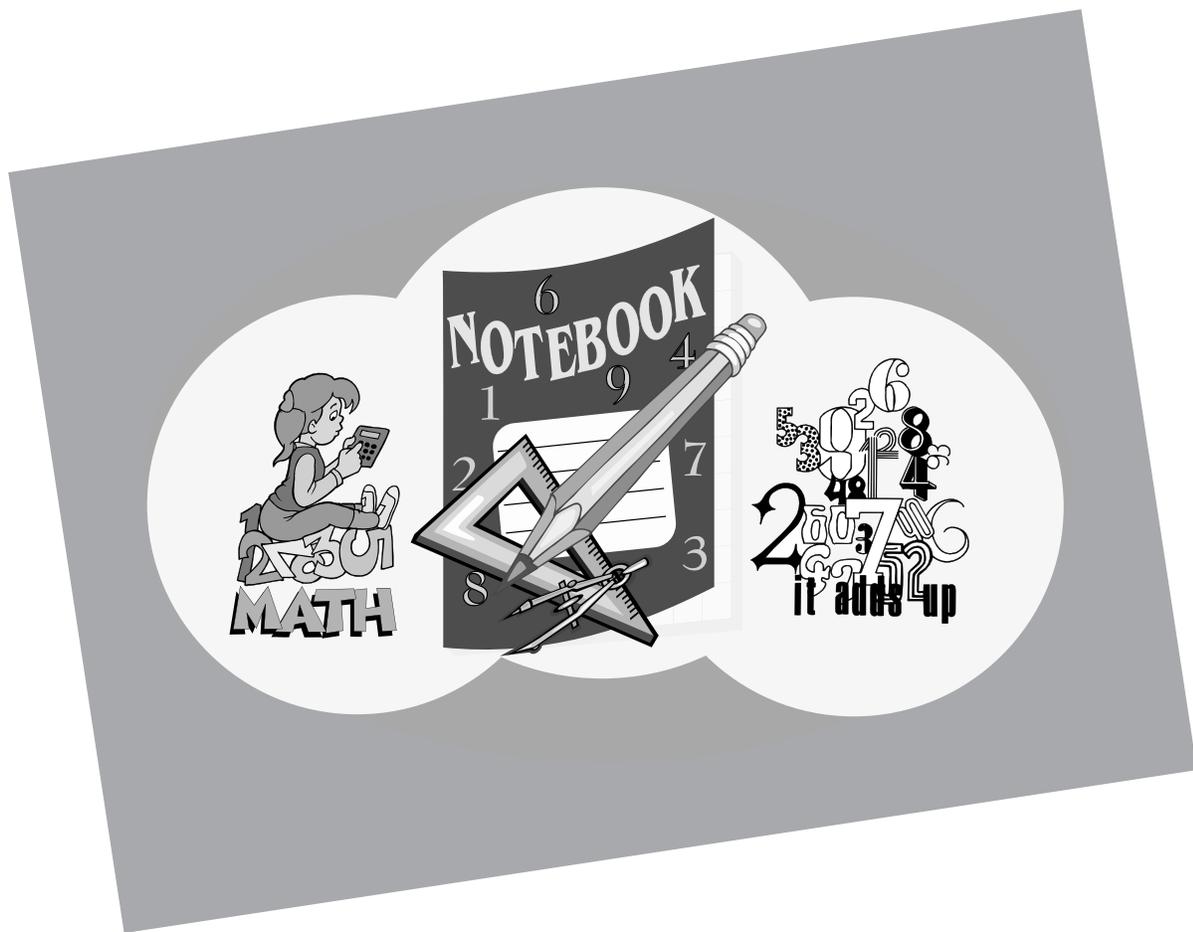
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Preview/Review Concepts for Grade Six Mathematics

TEACHER KEY



W1 - Quiz

W1 - Quiz**Score: /50**

Complete as many of the questions on this page as you can in 3 minutes.

$7 + 8 = \underline{15}$ $9 + 2 = \underline{11}$ $4 + 7 = \underline{11}$ $3 + 9 = \underline{12}$ $2 + 5 = \underline{7}$

$4 + 8 = \underline{12}$ $4 + 5 = \underline{9}$ $8 + 3 = \underline{11}$ $3 + 6 = \underline{9}$ $4 + 9 = \underline{13}$

$9 - 8 = \underline{1}$ $7 - 2 = \underline{5}$ $8 - 2 = \underline{6}$ $6 - 3 = \underline{3}$ $5 - 1 = \underline{4}$

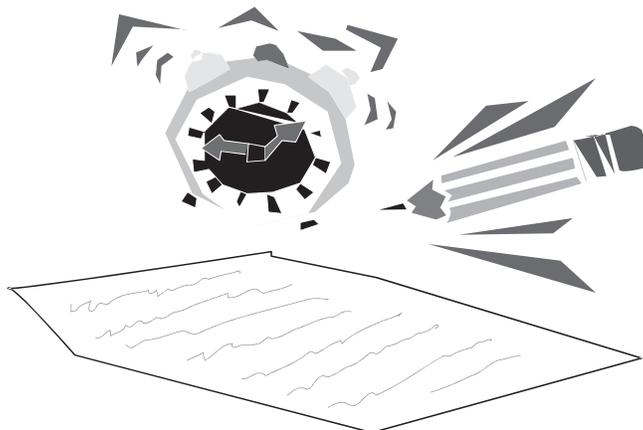
$10 - 8 = \underline{2}$ $9 - 9 = \underline{0}$ $8 - 6 = \underline{2}$ $6 - 2 = \underline{4}$ $7 - 4 = \underline{3}$

$2 \times 9 = \underline{18}$ $7 \times 3 = \underline{21}$ $5 \times 6 = \underline{30}$ $4 \times 8 = \underline{32}$ $5 \times 0 = \underline{0}$

$3 \times 3 = \underline{9}$ $2 \times 6 = \underline{12}$ $7 \times 8 = \underline{56}$ $6 \times 9 = \underline{54}$ $3 \times 1 = \underline{3}$

$8 \div 1 = \underline{8}$ $81 \div 9 = \underline{9}$ $56 \div 7 = \underline{8}$ $36 \div 6 = \underline{6}$ $11 \div 1 = \underline{11}$

$24 \div 8 = \underline{3}$ $33 \div 11 = \underline{3}$ $40 \div 5 = \underline{8}$ $63 \div 7 = \underline{9}$ $35 \div 5 = \underline{7}$



Complete the remainder of the quiz carefully.

1.
$$\begin{array}{r} 45\,789 \\ 23\,459 \\ + 12\,102 \\ \hline 81\,350 \end{array}$$

2.
$$\begin{array}{r} 80\,406 \\ - 29\,197 \\ \hline 51\,209 \end{array}$$

3.
$$\begin{array}{r} 568 \\ \times 351 \\ \hline 199368 \end{array}$$

4.
$$\begin{array}{r} 911 \\ 36 \overline{) 32\,796} \end{array}$$

5. List the following integers in order from least to greatest.
+567, +64, -230, -98, +1 024, +5, -34, -341

-341, -230, -98, -34, +5, +64, +567, + 1 024

6. Complete the following integer sentence.

$(+54) + (-49) + (-23) = \underline{\mathbf{-18}}$

7. Rewrite the following numerals in words:

a. 6 045 612 **Six million forty-five thousand six hundred twelve**

b. 1.093 **One decimal zero nine three or**

one and ninety three thousandths

8. Change the following number into numeral form.

Eighteen million sixty thousand seven hundred fourteen and five hundredths

18 060 714.05

9. Write the following number in expanded notation:

45 782.2 40 000 + 5 000 + 700 + 80 + 2 + 0.2

10. Insert the correct sign to make the following statements true
(= or < or >)

a. 1.045 < 1.054

b. 134.514 > 134.406

c. 13.70 = 13.7

d. 23.6 > 2.36

11. Identify each of the following pairs as **equivalent** or **not equivalent** fractions.

a. $\frac{2}{5}$, $\frac{20}{100}$

not equivalent

b. $\frac{24}{48}$, $\frac{1}{2}$

equivalent

c. 3,7, 39,91 or 3:7, 39:91 equivalent



12. Change the following fractions and mixed numbers into decimal fractions.

a. $\frac{24}{100}$ **0.24**

b. $5\frac{3}{10}$ **5.3**

c. $270\frac{48}{100}$ **270.48**

13. Change the following decimal numbers into fractions or mixed numbers.

a. 0.8 $\frac{8}{10}$

b. 11.69 $11\frac{69}{100}$

c. 2.75 $2\frac{3}{4}$

14. Change the following fractions to their lowest-terms.

a. $\frac{9}{15}$ $\frac{3}{5}$

b. $\frac{18}{36}$ $\frac{1}{2}$

c. $\frac{36}{90}$ $\frac{2}{5}$

15. Write the following improper fractions as mixed numbers.

a. $\frac{38}{7}$ $5\frac{3}{7}$

b. $\frac{22}{7}$ $3\frac{1}{7}$

16. Convert the following numbers to decimals and arrange them from the greatest to the least.

$81\frac{6}{10}$

$8\frac{2}{100}$

$8\frac{14}{100}$

$8\frac{49}{50}$

81.6

8.02

8.14

8.98

81.6, 8.98, 8.14, 8.02

(greatest to least)

17. Convert the following numbers into percents.

a. $\frac{35}{50}$
70 %

b. $\frac{27}{100}$
27 %

c. 0.65
65 %

d. 2.14
214 %

18. Write the following ratios in lowest-terms.

a. 1 000 to 100 **10 : 1**

b. 42:24 **7 : 4**

19. Calculate the answers for the following questions.

a. Find 40% of 4 000.
1 600

b. Find 25% of 248.
62

c. Find 7% of 1 200.
84

20. A train travels 686 km in 7 hours. What is the distance the train will travel in 4 hours? Use the cross-product method to solve.

The train will travel 392 km in four hours.

21. A recipe to make 24 muffins calls for 376 mL of milk. If you want to make 60 muffins, how much milk would you need?



You will need 940 ml of milk.

22. Write the following questions in columns and calculate the answers.
Check for columns.

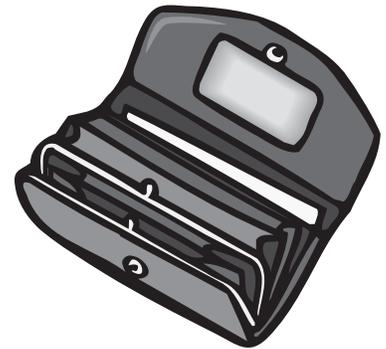
a. $24.65 + 127.09 + 67.80 + 34.654 = \mathbf{254.194}$

b. $865.23 - 94.183 = 771.047$

23. Nancy has \$15.36 in her wallet. If Janice has 8.3 times more money than Nancy, how much money does she have? Round your answer to the nearest hundredth.

\$127.488 rounds to \$127.49

Nancy has \$127.49



24. Solve the following equation.

14.50 divided by 0.25 = 58