

Important Concepts . . .

Preview Review



Mathematics Grade 4 *TEACHER KEY*

W1 - Quiz

Important Concepts of Grade 4 Mathematics

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| W1 - Lesson 2 | Addition and Subtraction |
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Materials Required

Mathematics Grade 4

Version 5

Preview/Review W1 - Quiz TEACHER KEY

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Preview/Review Concepts for Grade Four Mathematics

TEACHER KEY



W1 - Quiz

W1 - Quiz**Score: /50**

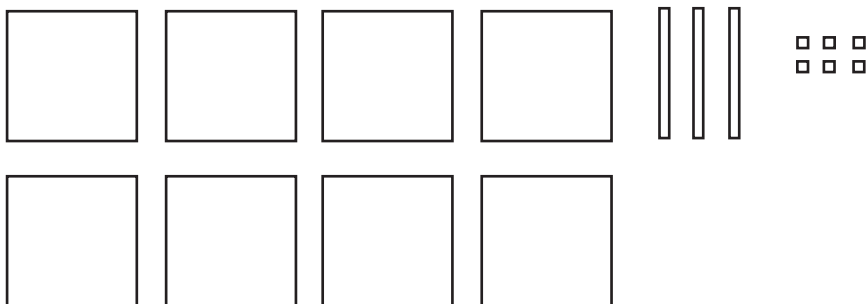
1. Use the following digits to create each four-digit number below.
(4 marks)

3**6****0****9**

- the greatest number
- the greatest number with 9 hundreds
- the least number with 0 ones
- the least number with 0 thousands

| | | | |
|----------|----------|----------|----------|
| 9 | 6 | 0 | 3 |
| 6 | 9 | 0 | 3 |
| 3 | 6 | 9 | 0 |
| 0 | 3 | 6 | 9 |

2. Use base ten drawings to show the number 836. (2 marks)



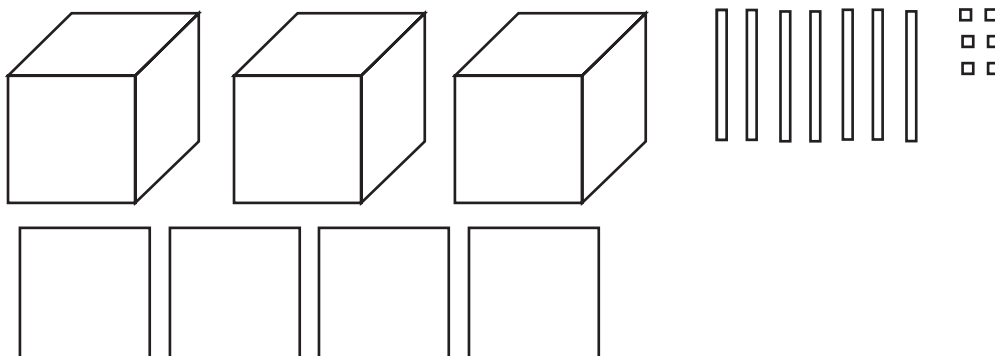
3. Write the number 7 305 in expanded form. (1 mark)

$7\,000 + 300 + 0 + 5$

4. Tell the value of each underlined digit. (1 mark)

a. 1 263 **2 hundreds or 200** b. 3 927 **2 tens or 20**

5. Tell what number is shown below. Write the number. Then write the number in words. (2 marks)



Number **3 476**

Number in words **Three thousand four hundred seventy-six**

6. Compare each of the following pairs of numbers. Use $<$ for *less than* and $>$ for *greater than*. (2 marks)

a. 8 876 $>$ 8 778

b. 3 463 $<$ 3 643

c. 1 190 $>$ 1 109

d. 6 457 $<$ 6 547

7. Round each number to the nearest ten, hundred, and thousand.
(3 marks)

| | Nearest 10 | Nearest 100 | Nearest 1000 |
|----------|--------------|--------------|--------------|
| a. 639 | <u>640</u> | <u>600</u> | <u>1 000</u> |
| b. 3 584 | <u>3 580</u> | <u>3 600</u> | <u>4 000</u> |

8. Write the four related number facts for this addition/subtraction fact family. (2 marks)

8, 9, 17

$$\underline{8 + 9 = 17}$$

$$\underline{17 - 9 = 8}$$

$$\underline{9 + 8 = 17}$$

$$\underline{17 - 8 = 9}$$

9. Find the sum. Use the reverse operation (subtraction) to check if each answer is correct. (4 marks)

| | Check | | Check |
|---|--|---|--|
| a. $\begin{array}{r} \$ 2.53 \\ + 8.98 \\ \hline \$11.51 \end{array}$ | $\begin{array}{r} \$11.51 \\ - 8.98 \\ \hline \$ 2.53 \end{array}$ | b. $\begin{array}{r} 663 \\ + 667 \\ \hline 1330 \end{array}$ | $\begin{array}{r} 1330 \\ - 667 \\ \hline 663 \end{array}$ |

10. Find the difference. Use the reverse operation (addition) to check if each answer is correct. (4 marks)

| | Check | | Check |
|---|--|--|---|
| a. $\begin{array}{r} 1462 \\ - 923 \\ \hline 539 \end{array}$ | $\begin{array}{r} 539 \\ + 923 \\ \hline 1462 \end{array}$ | b. $\begin{array}{r} \$24.60 \\ - 16.73 \\ \hline \$ 7.87 \end{array}$ | $\begin{array}{r} \$ 7.87 \\ + 16.73 \\ \hline \$24.60 \end{array}$ |

11. Tell what skip-counting pattern is being used. Then fill in the empty blanks with the missing numbers. (3 marks)

Skip counting by 4

12, 16, 20, 24, 28, 32, 36, 40, 44, 48

12. Complete each T-table. Then write the pattern rule on the line. (such as Add 3, Multiply by 5, etc.) (4 marks)

| a. First Number | Second Number | First Number | Second Number |
|-----------------|---------------|--------------|---------------|
| 1 | 2 | 6 | 1 |
| 2 | 4 | 10 | 5 |
| 3 | 6 | 14 | 9 |
| 4 | <u>8</u> | 18 | <u>13</u> |
| 5 | <u>10</u> | 22 | <u>17</u> |
| 10 | <u>20</u> | 30 | <u>25</u> |

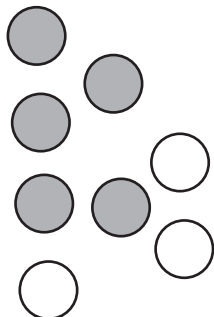
Pattern Rule: Multiply by 2

Pattern Rule: Subtract 5

13. Show the fraction below in two ways. First, shade part of a set of objects. Second, shade part of a whole figure. (2 marks)

$$\frac{5}{8}$$

Part of a Set



Part of a Whole



14. Write each decimal number in the place value chart. Then write the number on the line beside the chart. (4 marks)

a. six hundred thirty-nine and fifteen hundredths

| Hundreds | Tens | Ones | | Tenths | Hundredths |
|----------|----------|----------|---|----------|------------|
| 6 | 3 | 9 | ● | 1 | 5 |

The number is **639.15**

b. seventy-two and eight hundredths

| Hundreds | Tens | Ones | | Tenths | Hundredths |
|----------|----------|----------|---|----------|------------|
| | 7 | 2 | ● | 0 | 8 |

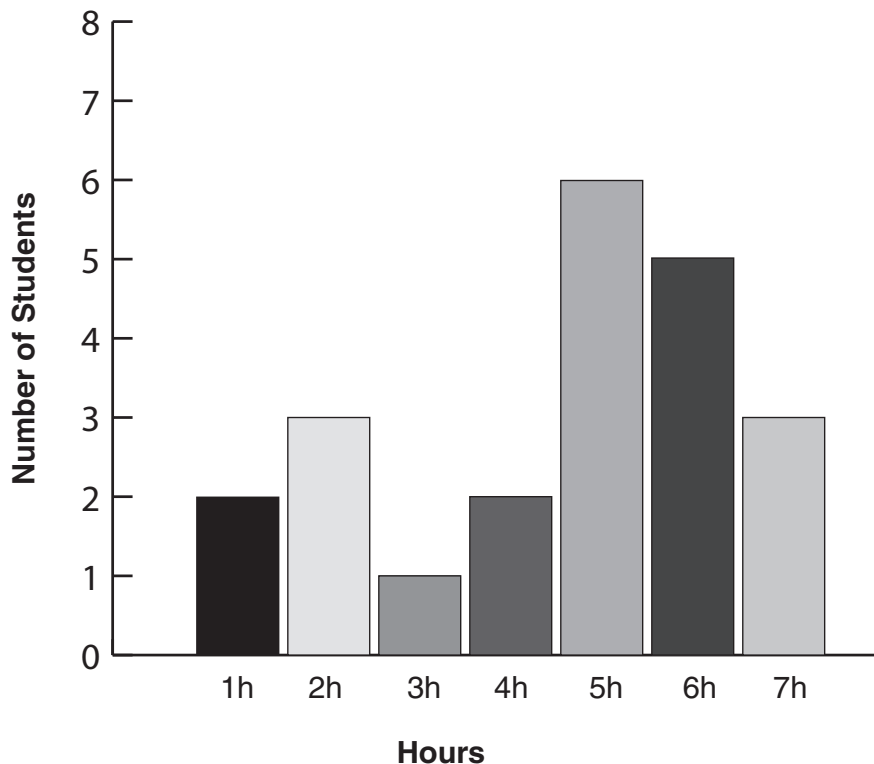
The number is **72.08**

15. Complete the chart below by filling in the correct fraction, decimal, or written number. (3 marks)

| FRACTION | DECIMAL NUMBER | NUMBER IN WORDS |
|------------------|--------------------|-------------------------------------|
| $\frac{65}{100}$ | 0.65 | <i>sixty-five hundredths</i> |
| $\frac{3}{10}$ | <i>0.3</i> | <i>three tenths</i> |
| $\frac{8}{100}$ | <i>0.08</i> | eight hundredths |

16. Use the data about homework from this bar graph to answer the following questions. Be sure to study the bar graph carefully before answering the questions. (4 marks)

Time Spent on Homework Last Week by Grade Fours



- a. How many students are in this Grade Four class? 22
- b. What is the most hours that any of the students spent doing homework during the week? 7 hours
- c. What is the least hours that any of the students spent doing homework during the week? 1 hour
- d. How many hours a week did the largest group spend on homework?
5 hours

17. Solve the following problem using the *Guess-and-Check* Strategy.

A gym storage bin contains 50 balls. Some are red and some are green. There are 22 more red balls than green balls. How many green balls and how many red balls are there? (5 marks)

Hint: Think of the problem this way.

Number of
Green Balls

+

Number of
Red Balls

=

Total Number
of Balls

You may have to make several guesses.

Methods may vary.

| | | | | | |
|------------------------|---------------------|-----------------|-------------------------|-----------------|------------------------------|
| | <i>Green</i> | | <i>Red</i> | <i>=</i> | <i>50</i> |
| <i>Guess 1:</i> | <i>20</i> | <i>+</i> | <i>(20 + 22)</i> | | |
| | <i>20</i> | <i>+</i> | <i>42</i> | <i>=</i> | <i>62 [Too big]</i> |
| <i>Guess 2:</i> | <i>10</i> | <i>+</i> | <i>(10 + 22)</i> | | |
| | <i>10</i> | <i>+</i> | <i>32</i> | <i>=</i> | <i>42 [Too small]</i> |
| <i>Guess 3:</i> | <i>14</i> | <i>+</i> | <i>(14 + 22)</i> | | |
| | <i>14</i> | <i>+</i> | <i>36</i> | <i>=</i> | <i>50</i> |

Answer to the problem: ***There are 14 green balls and 36 red balls.***

