

## Year 4 Term 1 Homework

<b>Student Name:</b> _____	<b>Grade:</b> _____
<b>Date:</b> _____	<b>Score:</b> _____

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### 3 Year 4 Term 1 Week 3 Homework

#### 3.1 Whole Numbers

##### 3.1.1 Roman Numbers

**Exercise 3.1.1** Change these Roman numerals into our own numerals:

1.  $CCLXVI =$  \_\_\_\_\_

2.  $DCXCIV =$  \_\_\_\_\_

3.  $CDXIX =$  \_\_\_\_\_

4.  $MCDXXIV =$  \_\_\_\_\_

5.  $MMCMLXXVII =$  \_\_\_\_\_

**Exercise 3.1.2** Change these numbers into the Roman numerals:

1.  $215 =$  \_\_\_\_\_

2.  $406 =$  \_\_\_\_\_

3.  $918 =$  \_\_\_\_\_

4.  $1998 =$  \_\_\_\_\_

5.  $2011 =$  \_\_\_\_\_

##### 3.1.2 Place Value

**Exercise 3.1.3** What is the place value of 5 in each of these numbers?

1.  $123,456 =$  \_\_\_\_\_

2.  $248,405 =$  \_\_\_\_\_

3.  $650,132 =$  \_\_\_\_\_

4.  $1,250,208 =$  \_\_\_\_\_

5.  $125,348 =$  \_\_\_\_\_

6.  $530,103 =$  \_\_\_\_\_

## 3.2 Decimals

### 3.2.1 Place Value

**Exercise 3.2.1** What is the place value of 3 in each of these decimal numbers?

1.  $103.268 =$  \_\_\_\_\_

2.  $130.702 =$  \_\_\_\_\_

3.  $948.324 =$  \_\_\_\_\_

4.  $102.035 =$  \_\_\_\_\_

5.  $1895.03 =$  \_\_\_\_\_

### 3.2.2 Ordering Decimal Numbers

**Exercise 3.2.2**

1. Which of the following four numbers is the smallest?

- A. 2.10                      B. 2.01                      C. 2.12                      D. 2.21

2. Which of the following four numbers is the smallest?

- A. 15.05                      B. 15.50                      C. 15.51                      D. 15.15

3. Which of the following four numbers is the largest?

- A. 0.123                      B. 0.321                      C. 0.312                      D. 0.231

4. Which of the following four numbers is the largest?

- A. 1.234                      B. 1.423                      C. 1.432                      D. 1.342

### 3.2.3 Four Operations

**Exercise 3.2.3**

1.  $14.4 + 1.6 =$  \_\_\_\_\_

2.  $14.4 - 1.6 =$  \_\_\_\_\_

3.  $14.4 \times 1.6 =$  \_\_\_\_\_

4.  $14.4 \div 1.6 =$  \_\_\_\_\_

5.  $14.4 \div 1.6 \times 2 + 14.4 - 1.6 =$  \_\_\_\_\_

**3.2.4 Rounding Off****Exercise 3.2.4**

1. Round off the following numbers to the nearest 10:

(a)  $2458 =$  \_\_\_\_\_

(b)  $89954 =$  \_\_\_\_\_

(c)  $29096 =$  \_\_\_\_\_

(d)  $19099 =$  \_\_\_\_\_

2. Round off the following numbers to the nearest 100:

(a)  $52903 =$  \_\_\_\_\_

(b)  $64952 =$  \_\_\_\_\_

(c)  $97960 =$  \_\_\_\_\_

(d)  $19049 =$  \_\_\_\_\_

3. Round off the following numbers to the nearest 1000:

(a)  $395072 =$  \_\_\_\_\_

(b)  $290835 =$  \_\_\_\_\_

(c)  $429652 =$  \_\_\_\_\_

(d)  $499546 =$  \_\_\_\_\_

4. Round off the following numbers to the nearest 10th:

(a)  $52.355 =$  \_\_\_\_\_

(b)  $24.963 =$  \_\_\_\_\_

(c)  $0.0356 =$  \_\_\_\_\_

(d)  $1.029 =$  \_\_\_\_\_

5. Round off the following numbers to the nearest 100th:

(a)  $42.936 =$  \_\_\_\_\_

(b)  $98.343 =$  \_\_\_\_\_

(c)  $0.2956 =$  \_\_\_\_\_

(d)  $1.0952 =$  \_\_\_\_\_

### 3.3 Fractions

#### 3.3.1 Equivalent Fractions

$$\textcircled{1} \quad \frac{5}{12} = \frac{30}{48}$$

$$\textcircled{2} \quad \frac{3}{5} = \frac{6}{35}$$

$$\textcircled{3} \quad \frac{4}{8} = \frac{8}{56}$$

$$\textcircled{4} \quad \frac{1}{3} = \frac{3}{27}$$

$$\textcircled{5} \quad \frac{6}{9} = \frac{18}{90}$$

$$\textcircled{6} \quad \frac{2}{9} = \frac{18}{90}$$

$$\textcircled{7} \quad \frac{5}{6} = \frac{50}{18}$$

$$\textcircled{8} \quad \frac{2}{5} = \frac{8}{50}$$

$$\textcircled{9} \quad \frac{1}{2} = \frac{7}{20}$$

$$\textcircled{10} \quad \frac{3}{4} = \frac{6}{28}$$

$$\textcircled{11} \quad \frac{8}{12} = \frac{40}{72}$$

$$\textcircled{12} \quad \frac{1}{12} = \frac{5}{96}$$

$$\textcircled{13} \quad \frac{9}{12} = \frac{27}{120}$$

$$\textcircled{14} \quad \frac{2}{4} = \frac{16}{24}$$

$$\textcircled{15} \quad \frac{6}{7} = \frac{60}{49}$$

$$\textcircled{16} \quad \frac{2}{12} = \frac{12}{108}$$

$$\textcircled{17} \quad \frac{8}{10} = \frac{64}{60}$$

$$\textcircled{18} \quad \frac{2}{3} = \frac{12}{24}$$

$$\textcircled{19} \quad \frac{4}{5} = \frac{16}{35}$$

$$\textcircled{20} \quad \frac{6}{8} = \frac{12}{72}$$

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Score:

**3.3.2 Simplifying Fractions**

①  $\frac{48}{80} =$  \_\_\_\_\_

②  $\frac{10}{40} =$  \_\_\_\_\_

③  $\frac{6}{18} =$  \_\_\_\_\_

④  $\frac{30}{50} =$  \_\_\_\_\_

⑤  $\frac{10}{14} =$  \_\_\_\_\_

⑥  $\frac{8}{12} =$  \_\_\_\_\_

⑦  $\frac{6}{12} =$  \_\_\_\_\_

⑧  $\frac{4}{36} =$  \_\_\_\_\_

⑨  $\frac{70}{80} =$  \_\_\_\_\_

⑩  $\frac{10}{20} =$  \_\_\_\_\_

⑪  $\frac{8}{36} =$  \_\_\_\_\_

⑫  $\frac{8}{24} =$  \_\_\_\_\_

⑬  $\frac{16}{24} =$  \_\_\_\_\_

⑭  $\frac{18}{24} =$  \_\_\_\_\_

⑮  $\frac{72}{80} =$  \_\_\_\_\_

⑯  $\frac{24}{66} =$  \_\_\_\_\_

⑰  $\frac{4}{22} =$  \_\_\_\_\_

⑱  $\frac{2}{24} =$  \_\_\_\_\_

⑲  $\frac{56}{80} =$  \_\_\_\_\_

⑳  $\frac{66}{72} =$  \_\_\_\_\_

Score: \_\_\_\_\_

## 3.3.3 Comparing Fractions

①  $\frac{18}{72} \square \frac{3}{5}$

②  $\frac{20}{24} \square \frac{1}{2}$

③  $\frac{2}{4} \square \frac{20}{25}$

④  $\frac{1}{4} \square \frac{1}{7}$

⑤  $\frac{2}{7} \square \frac{1}{8}$

⑥  $\frac{6}{18} \square \frac{10}{35}$

⑦  $\frac{2}{3} \square \frac{6}{30}$

⑧  $\frac{3}{6} \square \frac{5}{6}$

⑨  $\frac{1}{5} \square \frac{1}{3}$

⑩  $\frac{3}{4} \square \frac{16}{24}$

⑪  $\frac{5}{7} \square \frac{3}{7}$

⑫  $\frac{10}{25} \square \frac{16}{32}$

⑬  $\frac{4}{5} \square \frac{3}{6}$

⑭  $\frac{7}{8} \square \frac{2}{5}$

⑮  $\frac{1}{7} \square \frac{3}{8}$

⑯  $\frac{3}{5} \square \frac{3}{4}$

⑰  $\frac{27}{63} \square \frac{30}{35}$

⑱  $\frac{1}{2} \square \frac{6}{36}$

⑲  $\frac{4}{7} \square \frac{12}{16}$

⑳  $\frac{27}{72} \square \frac{1}{4}$

㉑  $\frac{32}{48} \square \frac{70}{80}$

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Score:

**3.3.4 Adding Fractions**

$$\textcircled{1} \quad \frac{1}{5} + \frac{2}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad \frac{7}{9} + \frac{5}{9} = \underline{\hspace{10cm}}$$

$$\textcircled{3} \quad \frac{4}{5} + \frac{4}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{4} \quad \frac{1}{2} + \frac{1}{2} = \underline{\hspace{10cm}}$$

$$\textcircled{5} \quad \frac{4}{8} + \frac{4}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad \frac{6}{10} + \frac{1}{10} = \underline{\hspace{10cm}}$$

$$\textcircled{7} \quad \frac{7}{10} + \frac{9}{10} = \underline{\hspace{10cm}}$$

$$\textcircled{8} \quad \frac{6}{8} + \frac{4}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad \frac{8}{9} + \frac{1}{9} = \underline{\hspace{10cm}}$$

$$\textcircled{10} \quad \frac{2}{3} + \frac{1}{3} = \underline{\hspace{10cm}}$$

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Score: \_\_\_\_\_



**3.3.5 Subtracting Fractions**

$$\textcircled{1} \quad \frac{7}{10} - \frac{2}{10} = \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad \frac{2}{3} - \frac{1}{3} = \underline{\hspace{10cm}}$$

$$\textcircled{3} \quad \frac{2}{9} - \frac{1}{9} = \underline{\hspace{10cm}}$$

$$\textcircled{4} \quad \frac{2}{4} - \frac{1}{4} = \underline{\hspace{10cm}}$$

$$\textcircled{5} \quad \frac{4}{5} - \frac{2}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad \frac{2}{3} - \frac{1}{3} = \underline{\hspace{10cm}}$$

$$\textcircled{7} \quad \frac{8}{10} - \frac{3}{10} = \underline{\hspace{10cm}}$$

$$\textcircled{8} \quad \frac{2}{4} - \frac{1}{4} = \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad \frac{3}{9} - \frac{2}{9} = \underline{\hspace{10cm}}$$

$$\textcircled{10} \quad \frac{2}{8} - \frac{1}{8} = \underline{\hspace{10cm}}$$

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Score: \_\_\_\_\_

### 3.4 Problem solving

#### 3.4.1 Number problems 1

##### Exercise 3.4.1

1. 4 times a number is 36. What is the number?

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2. 56 is equal to the product of eight and some number. Find the number.

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3. A number decreasing by 12 is 24. What is the number?

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4. The product of nine and a number is 108. What is the number?

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5. The quotient of a number and eight is 9. Find the number.

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6. The sum of a number and nine is 17. Find the number.

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7. Three-fourths of a number is 6. Find the number.

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8. Three is equal to the quotient of a number and 8. Find the number.

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9. The difference of a number and eight is equal to 8. What is the number?

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10. The quotient of a number and six increasing by 5 is 9. What is the number?

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**3.4.2 Number problems 2****Exercise 3.4.2**

1. A number decreasing by 6 is 8. Find the number.

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2. Six is equal to the quotient of a number and 4. Find the number.

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3. Twice a number is 14. What is the number?

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4. The product of four and a number is 28. What is the number?

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5. The sum of two numbers is 17. One number is seven less than the other. Find the numbers.

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6. The sum of two numbers is 63. The large number is eight times the smaller number. What are the numbers?

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7. A number increasing by 12 is 36. Find the number.

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8. One-fifth of a number is 2. Find the number.

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9. The product of a number and 4 increasing by 5 is 17. What is the number?

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10. One less than ten times a number is 29. Find the number.

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**3.5 Quiz 3**

Question 1. ....(1 points)

The numeral for five thousand and thirty-two is:

1. \_\_\_\_\_

Question 2. ....(1 points)

Write 385 in Roman numerals:

2. \_\_\_\_\_

Question 3. ....(1 points)

What is the remainder when 2008 is divided by 7?

3. \_\_\_\_\_

Question 4. ....(1 points)

Find the answer to the question  $3 \times (4 + 7) - 3 + 9$ .

4. \_\_\_\_\_

Question 5. ....(1 points)

What number is 37 less than 103?

5. \_\_\_\_\_

Question 6. ....(1 points)

What number is a multiple of both 5 and 6?

6. \_\_\_\_\_

Question 7. ....(1 points)

Round off 23904 to the nearest 1000.

7. \_\_\_\_\_

Question 8. ....(1 points)

Round off 120374 to the nearest 100.

8. \_\_\_\_\_

Question 9. .... (1 points)

Round off 12.036 to the nearest 100th.

9. \_\_\_\_\_

Question 10. .... (1 points)

Round off 4792.984 to the nearest 10th.

10. \_\_\_\_\_

Question 11. .... (1 points)

Find the answer to the question  $23.4 + 10.62$ .

11. \_\_\_\_\_

Question 12. .... (1 points)

Find the answer to the question  $12.46 - 3.64$ .

12. \_\_\_\_\_

Question 13. .... (1 points)

Write 28,304 in expanded notation.

\_\_\_\_\_

Question 14. .... (1 points)

Write 13,047 in exponential notation.

\_\_\_\_\_

Question 15. .... (1 points)

Find the answer to the question  $\frac{1}{3} + \frac{1}{4}$

\_\_\_\_\_

\_\_\_\_\_

Question 16. .... (1 points)

Find the answer to the question  $\frac{1}{4} - \frac{1}{6}$

\_\_\_\_\_

\_\_\_\_\_

Question 17. .... (4 points)

Rearrange the following numbers in ascending order:

- (a) 1.2, 1.03, 1.5, 1.12 and 0.34. \_\_\_\_\_ [1]
- (b) 2.13, 2.25, 1.34, 0.82 and 2.21. \_\_\_\_\_ [1]
- (c) 0.03, 0.07, 0.21, 0.12 and 0.18. \_\_\_\_\_ [1]
- (d) 0.2, 0.03, 0.4, 0.45 and 0.05. \_\_\_\_\_ [1]

Question 18. .... (4 points)

Evaluate the value of:

- (a)  $8307 - 4180$  (to the nearest 100) \_\_\_\_\_ [1]
- (b)  $20000 - 9058$  (to the nearest 10) \_\_\_\_\_ [1]
- (c)  $48207 - 9864$  (to the nearest 1000) \_\_\_\_\_ [1]
- (d)  $54500 - 6893$  (to the nearest 100) \_\_\_\_\_ [1]

Question 19. .... (4 points)

Find the value of:

- (a)  $43 + 16 - 27 =$  \_\_\_\_\_ [1]
- (b)  $45 - 9 \times 4 + 6 =$  \_\_\_\_\_ [1]
- (c)  $45 - 65 \div 5 + 10 =$  \_\_\_\_\_ [1]
- (d)  $27 - 2 \times (5 + 4) =$  \_\_\_\_\_ [1]

Question 20. .... (2 points)

Krystal has a mass of 35 kilograms and is increasing by 400 grams per month. What will her mass be in six months?

\_\_\_\_\_

\_\_\_\_\_

Question 21. .... (2 points)

Daniel is given \$ 2.50 per week and spends 90 cents. If he saves the remainder each week, how much will he save in five weeks?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Question 22. .... (2 points)

What is the average of 16, 19 and 25?

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Question 23. .... (2 points)

The sum of three numbers is 134. If two of the numbers are 25 and 37, what is the other number?

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Question 24. .... (2 points)

A space ship travelled 999560 km. Round off this distance to the nearest 1000 km.

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Question 25. .... (2 points)

The difference between two numbers is 12. If the smaller number is 28, what is the product of these two numbers?

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Question 26. .... (2 points)

When a number is divided by 28, the answer is 8. What is the number?

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Question 27. .... (2 points)

If the average of four numbers is 16, what is the total of the four numbers?

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Question 28. .... (2 points)

What is the difference between  $5^2$  and  $9^2$ ?

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Question 29. .... (2 points)

When a number is multiplied by 13, the answer is 5 more than seventy-three. What was the original number?

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Question 30. .... (2 points)

Find the value of  $48 \times 24$ .

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Question 31. .... (2 points)

John and Sam shared \$820 between them. If John received \$200 more than Sam, how much did Sam receive?

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Question 32. .... (2 points)

In a bag of 147 marbles there are 6 times as many blue marbles as red marbles. How many red marbles are there?

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Question 33. .... (2 points)

Peter and Ray had 235 marbles between them. If Ray had 43 less than Peter, how many marbles did Peter have?

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Question 34. .... (2 points)

Daniel is 12 kg heavier than Joe. Their total weight is 138 kg. Find Joe's mass.

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Question 35. .... (2 points)

Jason has \$210 and Jessica has \$150. How much must Jason give to Jessica so that they each have an equal amount of money?

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Question 36. .... (5 points)

Mary collected 944 stamps. She had three times as many Australian stamps as foreign stamps. How many Australian stamps did she have?

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Question 37. .... (5 points)

My father gave me some small change that he had in his pocket. I spent  $\frac{1}{10}$  of it on Monday, another  $\frac{1}{10}$  on Tuesday and another  $\frac{1}{10}$  on Wednesday. If I had 56 cents left on Thursday, how much did he give me?

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Question 38. .... (5 points)

$\frac{2}{3}$  of the children in my class have pets at home. Eight have no pets. How many children are in the class?

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Question 39. .... (5 points)

Dad goes to work at 7:30 in the morning. He is usually away for eight and a half hours. What time is he due home?

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Question 40. .... (5 points)

There are 4 times as many boys as girls at a tennis camp. If there 36 more boys than girls, how many children are there altogether?

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Question 41. .... (5 points)

In another four years Bonnie will be three times as old as she was four years ago. If it is Bonnie's birthday, how old is she today?

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Question 42. .... (5 points)

Dad said to my sister Jane: "When you are one third as old as I am, I shall buy you a new computer." Jane is now 12 and Dad is 56. How old will Jane be when Dad carries out his promise?

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Question 43. .... (5 points)

Judy and Linda had \$278 between them. Judy had 4 times as much money as Linda. How much did Linda have?

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