



### Homework

Hello Students. We will begin Chapter 2 on Tuesday. Students will learn to make multiplication comparisons, write comparison statements, multiply by tens, hundred, thousands, estimate products, multiply with partial products and multiply multi-digit numbers. Immediately after Chapter 2, students will begin division, by interpreting remainders, divide using partial quotients, model division with regrouping and complete multistep division problems. Students will complete a **Quiz** reviewing Chapter 2 on **Monday September 17, 2018**. Please feel free to contact me with any questions or concerns at [morales.zervos@archimedean.org](mailto:morales.zervos@archimedean.org).

### Think Central Information

Students have access to Think Central assignments and the GO MATH! Student Interactive Book to review Chapter 2.

<https://www-k6.thinkcentral.com/ePC/start.do>

The 4th Grade Mathematics Curriculum depends on a strong foundation in multiplication and division facts. Concepts to be covered include multi-digit multiplication and division, factorization, fractions, and area. The remaining chapters require students to be fluent in all multiplication and division facts. These skills were introduced in 2nd grade and should have been mastered in 3rd grade. Please have your children use Reflex Math to reinforce their facts. <https://www.reflexmath.com>

### Notes

Students **MUST** prove and show all their work. If additional space is needed, please feel free to attach lined paper. Failure to show your work will result in a lower grade. Please complete the homework to the best of your abilities.

Monday                      September 10<sup>th</sup>                      – No Homework – Teacher Planning Day

Tuesday                      September 11<sup>th</sup>                      – 2.1 (2 pages)

Wednesday                      September 12<sup>th</sup>                      – 2.2 (2 pages)

Thursday                      September 13<sup>th</sup>                      – 2.3 (2 pages)

Friday                      September 14<sup>th</sup>                      – 2.4 (2 pages)

Homework will be checked daily in class. Completed homework packets are due on Monday September 17, 2018.

| <u>Monday</u><br>September 10 <sup>th</sup> | <u>Tuesday</u><br>September 11 <sup>th</sup> | <u>Wednesday</u><br>September 12 <sup>th</sup> | <u>Thursday</u><br>September 13 <sup>th</sup> | <u>Friday</u><br>September 14 <sup>th</sup> |
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Name: \_\_\_\_\_ Section: \_\_\_\_\_

Name \_\_\_\_\_

## ALGEBRA

### Lesson 2.1

### Multiplication Comparisons



COMMON CORE STANDARD MACC.4.OA.1.1

Use the four operations with whole numbers to solve problems.

Write a comparison sentence.

1.  $6 \times 3 = 18$

\_\_\_\_\_ times as many as \_\_\_\_\_ is \_\_\_\_\_.

2.  $63 = 7 \times 9$

\_\_\_\_\_ is \_\_\_\_\_ times as many as \_\_\_\_\_.

3.  $5 \times 4 = 20$

\_\_\_\_\_ times as many as \_\_\_\_\_ is \_\_\_\_\_.

4.  $48 = 8 \times 6$

\_\_\_\_\_ is \_\_\_\_\_ times as many as \_\_\_\_\_.

Write an equation.

5. 2 times as many as 8 is 16.

\_\_\_\_\_

6. 42 is 6 times as many as 7.

\_\_\_\_\_

7. 3 times as many as 5 is 15.

\_\_\_\_\_

8. 36 is 9 times as many as 4.

\_\_\_\_\_

9. 72 is 8 times as many as 9.

\_\_\_\_\_

10. 5 times as many as 6 is 30.

\_\_\_\_\_

### Problem Solving



11. Alan is 14 years old. This is twice as old as his brother James is. How old is James?

\_\_\_\_\_

12. There are 27 campers. This is nine times as many as the number of counselors. How many counselors are there?

\_\_\_\_\_

## Lesson Check (MACC.4.OA.1.1)

1. Which equation best represents the comparison sentence?

24 is 4 times as many as 6.

- (A)  $24 \times 4 = 6$
- (B)  $24 = 4 \times 6$
- (C)  $24 = 4 + 6$
- (D)  $4 + 6 = 24$

2. Which comparison sentence best represents the equation?

$$5 \times 9 = 45$$

- (A) 5 more than 9 is 45.
- (B) 9 is 5 times as many as 45.
- (C) 5 is 9 times as many as 45.
- (D) 45 is 5 times as many as 9.

## Spiral Review (MACC.4.OA.1.3, MACC.4.NBT.1.2, MACC.4.NBT.1.3)

3. Which of the following statements correctly compares the numbers? (Lesson 1.3)

- (A)  $273,915 > 274,951$
- (B)  $134,605 < 143,605$
- (C)  $529,058 > 530,037$
- (D)  $452,731 > 452,819$

4. What is the standard form for  $200,000 + 80,000 + 700 + 6$ ? (Lesson 1.2)

- (A) 2,876
- (B) 28,706
- (C) 208,706
- (D) 280,706

5. Sean and Leah are playing a computer game. Sean scored 72,491 points. Leah scored 19,326 points more than Sean. How many points did Leah score? (Lesson 1.6)

- (A) 53,615
- (B) 91,717
- (C) 91,815
- (D) 91,817

6. A baseball stadium has 38,496 seats. Rounded to the nearest thousand, how many seats is this? (Lesson 1.4)

- (A) 38,000
- (B) 38,500
- (C) 39,000
- (D) 40,000

Name \_\_\_\_\_

## Comparison Problems

# ALGEBRA

## Lesson 2.2



**COMMON CORE STANDARD** MACC.4.OA.1.2

Use the four operations with whole numbers to solve problems.

**Draw a model. Write an equation and solve.**

1. Stacey made a necklace using 4 times as many blue beads as red beads. She used a total of 40 beads. How many blue beads did Stacey use?
2. At the zoo, there were 3 times as many monkeys as lions. Tom counted a total of 24 monkeys and lions. How many monkeys were there?

**Think:** Stacey used a total of 40 beads. Let  $n$  represent the number of red beads.

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3. Fred's frog jumped 7 times as far as Al's frog. The two frogs jumped a total of 56 inches. How far did Fred's frog jump?
4. Sheila has 5 times as many markers as Dave. Together, they have 18 markers. How many markers does Sheila have?

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## Problem Solving REAL WORLD

5. Rafael counted a total of 40 white cars and yellow cars. There were 9 times as many white cars as yellow cars. How many white cars did Rafael count?
6. Sue scored a total of 35 points in two games. She scored 6 times as many points in the second game as in the first. How many more points did she score in the second game?

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## Lesson Check (MACC.4.OA.1.2)

1. Sari has 3 times as many pencil erasers as Sam. Together, they have 28 erasers. How many erasers does Sari have?  
(A) 7  
(B) 14  
(C) 18  
(D) 21
2. In Sean's fish tank, there are 6 times as many goldfish as guppies. There are a total of 21 fish in the tank. How many more goldfish are there than guppies?  
(A) 5  
(B) 12  
(C) 15  
(D) 18

## Spiral Review (MACC.4.OA.1.1, MACC.4.OA.1.3, MACC.4.NBT.1.2)

3. Barbara has 9 stuffed animals. Trish has 3 times as many stuffed animals as Barbara. How many stuffed animals does Trish have? (Lesson 2.1)  
(A) 3  
(B) 12  
(C) 24  
(D) 27
4. There are 104 students in the fourth grade at Allison's school. One day, 15 fourth-graders were absent. How many fourth-graders were at school that day? (Lesson 1.7)  
(A) 89  
(B) 91  
(C) 99  
(D) 119
5. Joshua has 112 rocks. Jose has 98 rocks. Albert has 107 rocks. What is the correct order of the boys from the least to the greatest number of rocks owned? (Lesson 1.3)  
(A) Jose, Albert, Joshua  
(B) Jose, Joshua, Albert  
(C) Albert, Jose, Joshua  
(D) Joshua, Albert, Jose
6. Alicia has 32 stickers. This is 4 times as many stickers as Benita has. How many stickers does Benita have? (Lesson 2.1)  
(A) 6  
(B) 8  
(C) 9  
(D) 28

Name \_\_\_\_\_

## Estimate Products



**COMMON CORE STANDARD** MACC.4.NBT.2.5  
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Estimate the product by rounding.

1.  $4 \times 472$

$4 \times 472$



$4 \times 500$

**2,000**

2.  $2 \times 6,254$

3.  $9 \times 54$

4.  $5 \times 5,503$

5.  $3 \times 832$

6.  $6 \times 98$

7.  $8 \times 3,250$

8.  $7 \times 777$

Find two numbers the exact answer is between.

9.  $3 \times 567$

10.  $6 \times 7,381$

11.  $4 \times 94$

12.  $8 \times 684$

## Problem Solving REAL WORLD

13. Isaac drinks 8 glasses of water each day. He says he will drink 2,920 glasses of water in a year that has 365 days. Is the exact answer reasonable? **Explain.**

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14. Most Americans throw away about 1,365 pounds of trash each year. Is it reasonable to estimate that Americans throw away over 10,000 pounds of trash in 5 years? **Explain.**

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## Lesson Check (MACC.4.NBT.2.5)

- A theater has 4,650 seats. If the theater sells all the tickets for each of its 5 shows, about how many tickets will the theater sell in all?  
 (A) 2,500                      (C) 25,000  
 (B) 10,000                    (D) 30,000
- Washington Elementary has 4,358 students. Jefferson High School has 3 times as many students as Washington Elementary. About how many students does Jefferson High School have?  
 (A) 16,000                    (C) 10,000  
 (B) 12,000                    (D) 1,200

## Spiral Review (MACC.4.OA.1.1, MACC.4.NBT.1.3, MACC.4.NBT.2.4, MACC.4.NBT.2.5)

- Diego has 4 times as many autographed baseballs as Melanie has. Diego has 24 autographed baseballs. How many autographed baseballs does Melanie have? (Lesson 2.1)  
 (A) 28  
 (B) 20  
 (C) 8  
 (D) 6
- Mr. Turkowski bought 4 boxes of envelopes at the office supply store. Each box has 500 envelopes. How many envelopes did Mr. Turkowski buy? (Lesson 2.3)  
 (A) 200  
 (B) 504  
 (C) 2,000  
 (D) 20,000
- Pennsylvania has a land area of 44,816 square miles. Which of the following shows the land area of Pennsylvania rounded to the nearest hundred? (Lesson 1.4)  
 (A) 44,000 square miles  
 (B) 44,800 square miles  
 (C) 44,900 square miles  
 (D) 45,000 square miles
- The table shows the types of DVDs customers rented from Sunshine Movie Rentals last year.

| Movie Rentals |               |
|---------------|---------------|
| Type          | Number Rented |
| Comedy        | 6,720         |
| Drama         | 4,032         |
| Action        | 5,540         |

How many comedy and action movies were rented in all last year? (Lesson 1.6)

- (A) 13,620                      (C) 12,260  
 (B) 13,000                      (D) 10,752

Name \_\_\_\_\_

## Multiply



**COMMON CORE STANDARD** MACC.4.NBT.2.5  
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Record the product.

1.  $7 \times 14 =$  \_\_\_\_\_

2.  $8 \times 43 =$  \_\_\_\_\_

3.  $6 \times 532 =$  \_\_\_\_\_

4.  $5 \times 923 =$  \_\_\_\_\_

5.  $4 \times 2,371 =$  \_\_\_\_\_

6.  $7 \times 1,829 =$  \_\_\_\_\_

## Problem Solving



7. The fourth-grade students at Riverside School are going on a field trip. There are 68 students on each of the 4 buses. How many students are going on the field trip?

\_\_\_\_\_

8. There are 5,280 feet in one mile. Hannah likes to walk 5 miles each week for exercise. How many feet does Hannah walk each week?

\_\_\_\_\_



## Lesson Check (MACC.4.NBT.2.5)

- Which expression shows how to multiply  $7 \times 256$  by using expanded form and the Distributive Property?
  - $(7 \times 2) + (7 \times 5) + (7 \times 6)$
  - $(7 \times 200) + (7 \times 500) + (7 \times 600)$
  - $(7 \times 2) + (7 \times 50) + (7 \times 600)$
  - $(7 \times 200) + (7 \times 50) + (7 \times 6)$
- Sue uses the expression  $(8 \times 3,000) + (8 \times 200) + (8 \times 9)$  to help solve a multiplication problem. Which is Sue's multiplication problem?
  - $8 \times 329$
  - $8 \times 3,029$
  - $8 \times 3,209$
  - $8 \times 3,290$

## Spiral Review (MACC.4.NBT.1.1, MACC.4.NBT.1.2, MACC.4.NBT.2.5)

- What is another way to write  $9 \times 200$ ? (Lesson 1.5)
  - 18 ones
  - 18 tens
  - 18 hundreds
  - 18 thousands
- What is the value of the digit 4 in 46,000? (Lesson 1.1)
  - 4 ten thousands
  - 4 thousands
  - 4 hundreds
  - 4 tens
- Chris bought 6 packages of napkins for his restaurant. There were 200 napkins in each package. How many napkins did Chris buy? (Lesson 2.3)
  - 120
  - 1,200
  - 12,000
  - 120,000
- Which of the following lists the numbers in order from **least** to **greatest**? (Lesson 1.3)
  - 8,512; 8,251; 8,125
  - 8,251; 8,125; 8,512
  - 8,125; 8,512; 8,251
  - 8,125; 8,251; 8,512