Name:_____ Date:_____

☀️ Rising 4th Grade Summer Packet ☀️

📣 **Welcome to your Summer Math Challenge!** Keep your brain active and ready for 4th grade by solving these summer-themed math puzzles. Grab some sunscreen and let's go!

Section 1: Number Sense

1. A chest buried deep in the beach sand contains **6,782** shiny sea shells. What is the place value of the digit **7** in this number?

2. Compare the following numbers. Write **<**, **>**, or **=** in each blank.

a) 4,392 ◯ 4,932

b) 8,050 ◯ 8,050

c) 1,204 ◯ 1,024

d) 9,998 ◯ 9,999

3. Four friends collected sea glass on the shore. Order these amounts from **greatest to least** to find who found the most:

8,432 8,234 8,423 8,342

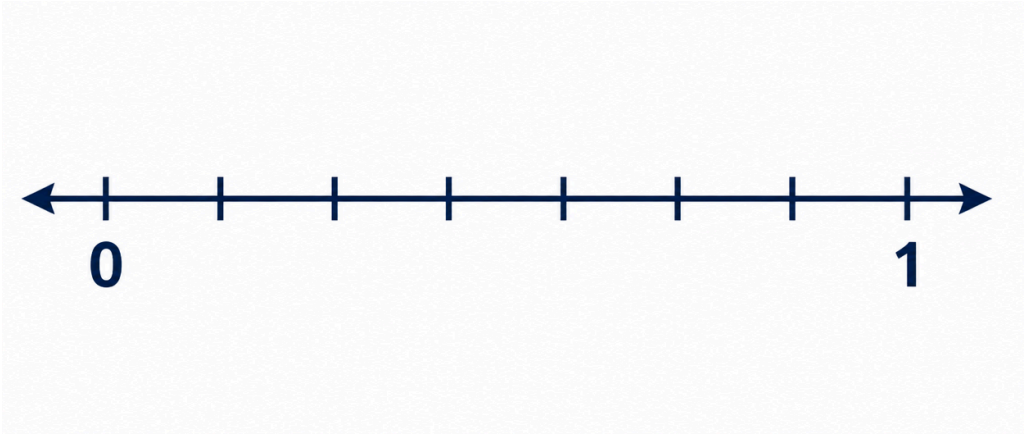
4. Write the number **4,059** in expanded form.

5. A summer surf shop sold a mystery number of surfboards last summer. The number has a 9 in the thousands place, a 4 in the tens place, and a 3 in the ones place. Which number is it?

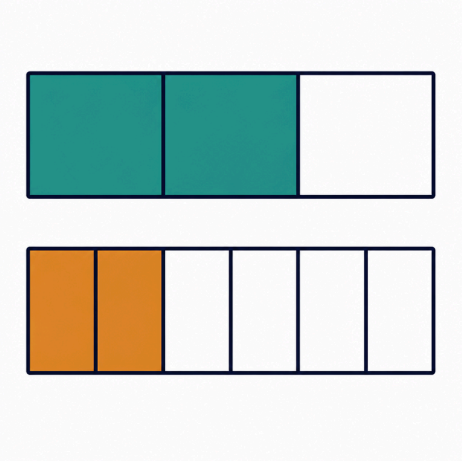
a) 3,493 b) 9,243 c) 9,934 d) 3,943

Section 2: Fractions

6. Look at the number line below. Draw a point and label where the fraction **5/8** belongs.



7. Look at the rectangles on the right. Compare the fractions **2/3** and **2/6** using **<**, **>**, or **=**.



8. A beach towel is divided into 8 equal stripes. If Leo covers 3 stripes with his cooler, what fraction of the beach towel is still showing? Draw a picture to help solve.

Section 3: Addition, Subtraction & Estimation

9. The local beach resort rented out 435 paddleboards in June and 289 paddleboards in July. How many paddleboards did they rent out in total? Show your working.

10. A beachside ice cream shop had 600 popsicles at the start of the weekend. They sold 342 of them to hot beachgoers. How many popsicles do they have left? Show your working.

11. Liam has a **$10** bill. He buys a beach toy for **$3** and two bottles of water for **$2**. How much change should he get back? Show both steps of your work.

12. Which is the best estimate for the sum of **489** and **314**?

a) 700 b) 800 c) 900 d) 1,000

13. Sarah says that 503 - 298 is exactly 200. Is she correct? Explain your reasoning using estimation.

Section 4: Multiplication & Division

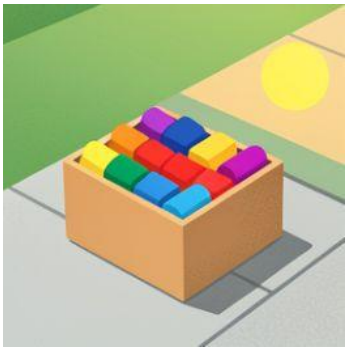
14. Solve the following math facts:

a) 7 × 8 = _____

b) 54 ÷ 6 = _____

c) 9 × 6 = _____

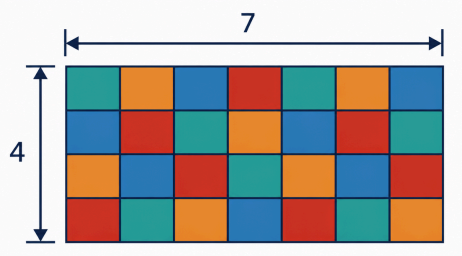
d) 72 ÷ 9 = _____



15. Maya bought 8 packs of summer water balloons. Each pack has 10 balloons inside. How many water balloons does she have in total?

16. A lifeguard team has 48 bottles of sunscreen. They want to split them equally among 6 lifeguard stations. How many bottles will go to each station? Draw a picture to help solve.

17. Write a multiplication equation that represents the area of the grid shown on the right.



18. Sofia bought 3 bags of beach-themed stickers. Each bag holds 5 star stickers. She gives 4 star stickers to her brother. How many star stickers does Sofia have left? Show your working. Draw a picture to help solve.

19. Write a short story problem that can be solved using the equation **24 ÷ 4 = 6**.

20. Evaluate this statement: "4 × 5 has the same product as 5 × 4."

Is this true or false? Justify your answer.

Carrot Conundrum

21. Solve each of these problems. Show your thinking with words, pictures, or equations.

a) Kia harvested 95 carrots in one day. She harvested 39 carrots in the afternoon. How many carrots did Kia harvest in the morning?

b) Rohan sold 44 fewer carrots on Tuesday than he did on Monday. If he sold 37 carrots on Tuesday, how many did he sell on Monday?

c) When Rohan yells to Kia in the carrot field to come in for lunch, his yell measures 92 decibels.* His yelling voice is 24 decibels more than his normal speaking voice. How many decibels is Rohan's speaking voice?

**Decibels are units used to measure sound.*

d) On one very hot summer day, Rohan and Kia used 56 more gallons of water on their carrot fields than they usually do. If they used 83 gallons of water on this hot, summer day, how many gallons of water do they use on a normal summer day?

Answer Key

1. Hundreds (or 700)

a) <, b) =, c) >, d) <

3. 8,432; 8,423; 8,342; 8,234

4. 4,000 + 50 + 9

5. b) 9,243 (9 in the thousands place, 4 in the tens place, 3 in the ones place)

7. 2/3 > 2/6

8. 5/8 of the beach towel

9. 435 + 289 = 724 paddleboards

10. 600 - 342 = 258 popsicles

11. Step 1: $10 - $3 = $7 remaining. Step 2: $7 - ($2 × 2) = $3 change.

12. b) 800 (500 + 300)

13. She is incorrect. 503 is close to 500, and 298 is close to 300. 500 - 300 = 200, so the answer is *about* 200, but the exact answer is 205 (or she didn't calculate the exact difference).

a) 56, b) 9, c) 54, d) 8

15. 8 × 10 = 80 water balloons

16. 48 ÷ 6 = 8 bottles of sunscreen

17. 4 × 7 = 28 (or 7 × 4 = 28)

18. 3 × 5 = 15 stickers; 15 - 4 = 11 stickers

19. Answers will vary. Example: There are 24 students. The teacher puts them into 4 equal groups. How many students are in each group?

20. True. Explanations will vary (e.g., mentioning the commutative property, drawing an array showing 4 rows of 5 is the same total as 5 rows of 4, both equal 20).

a) 95 - 39 = 56 carrots

b) 37 + 44 = 81 carrots

c) 92 - 24 = 68 decibels

d) 83 - 56 = 27 gallons of water