

# Rising 7th Summer Math Packet

Summer 2022

Welcome to 7th Grade Math! Mathematicians look for patterns, persevere in solving difficult problems, construct reasonable arguments, and work together. To do these things, we need some tools. This packet will help you sharpen your tools to be prepared for 7th grade math.

Please complete each of these problems over the summer. This will be your first quiz grade of the year. If you do not remember how to complete a particular problem, use Khan Academy or YouTube to help.

We recommend completing several problems each week so that you spread the work out over the summer.

[Click on this link to access your Summer Math Packet.](#) This packet will be due the first week of school.

Follow these instructions to log into Edulastic:

1. Go to [edulastic.com](https://edulastic.com)
2. Click the link to sign up if you haven't already.
3. Choose Log in with Google and use your Latin email to make an account.
4. Enter the Class Code **V2QE759K** to join the Class of 2028 (Rising 7th Graders) group.
5. Click the Assignments tab at the left of your screen and you should see the Rising 7th Grade Summer Math assignment.
6. Write your calculations on the attached packet or a blank sheet of paper to turn in when school begins in the fall. Be sure to label each problem clearly and neatly.

Note: While we prefer you to complete this assignment online in Edulastic, you may also do this work on paper by printing a pdf from the school website. In that case, write your thinking on that paper and bring it to school on the first day.

### Fraction Operations

1.  $\frac{1}{3} + \frac{2}{9} =$  \_\_\_\_\_

2.  $\frac{3}{4} + \frac{5}{6} =$  \_\_\_\_\_

3.  $1\frac{2}{3} + \frac{4}{9} =$  \_\_\_\_\_

4.  $3\frac{3}{5} - 2\frac{2}{3} =$  \_\_\_\_\_

5.  $\frac{5}{6} \cdot \frac{1}{11} =$  \_\_\_\_\_

6.  $\frac{7}{9} \cdot \frac{3}{14} =$  \_\_\_\_\_

7.  $\frac{2}{3} \div \frac{1}{6} =$  \_\_\_\_\_

8.  $\frac{3}{10} \div \frac{9}{20} =$  \_\_\_\_\_

### Decimal Operations

9.  $6.3 + 3.7 + 5.89 =$  \_\_\_\_\_

10.  $2 + 0.7 + 11.47 =$  \_\_\_\_\_

11.  $6.1 - 1.4 =$  \_\_\_\_\_

12.  $9.8 \cdot 3.52 =$  \_\_\_\_\_

13.  $83.08 \div 6.2 =$  \_\_\_\_\_

14.  $26.5 \div 5.3 =$  \_\_\_\_\_

### Order of Operations

15.  $6 \cdot 3 + 376 \div 8 - 5 + 4^3 =$  \_\_\_\_\_

16.  $(12 + 14) \cdot 8 \div (8^2 \div 4^2) =$  \_\_\_\_\_

### Equations

Solve for x.

17.  $x + 5 = 11$

18.  $21 = 3x$

19.  $12 = x - 9$

20.  $6x = 48$

## Ratios

21. Write three ratios that are equivalent to the ratio 4:10

a. \_\_\_\_\_ : \_\_\_\_\_

b. \_\_\_\_\_ : \_\_\_\_\_

c. \_\_\_\_\_ : \_\_\_\_\_

22. Deandre can run 5 miles in 30 minutes.

a. How many minutes per mile is that?

b. How many miles per minute is that?

23. One dozen cookies cost \$5.50.

a. At that rate, how much does one cookie cost?

b. At the same rate, how much would 30 cookies cost?

## Percents

24. What is 25% of 80? \_\_\_\_\_

25. What is 10% of 560? \_\_\_\_\_

26. 8 is what percent of 12? \_\_\_\_\_

## Problem-Solving

27. Place parentheses in the following equation to make it true.

$$6 + 6 \div 6 \cdot 6 - 6 = 0$$

28. Maria had 2 quarters, 1 dime, and 3 pennies. Jocelyn had 2 nickels. Maria gave 3 of her coins to Jocelyn. Belle then had 1 cent more than Maria. What 3 coins did Maria give to Jocelyn?

**Bonus:** Use what you know about ratios to double or triple or half (or some other amount) a recipe this summer. Take photos of what you make and of the original recipe. Be prepared to tell the class about it when school starts in the fall.