



Teaneck Public Schools Incoming Grade 6 Math Summer Assignment

PURPOSE:

This math packet was created to offer students entering grade six an opportunity to practice the necessary skills needed to excel in mathematics in the upcoming school year

Suggestions for completing the summer assignment:

- This packet includes a 12 day review that will help you to remember some of the math concepts you studied during the fifth grade. The packet should be completed over the course of several days, not in one day. A few tips that should help you to remember how to solve some of the problems are listed on the following page.

Assignment Policies:

- **Your summer assignment is due on the first day of school.**
 - If it is not handed in, your teacher will call your parents/guardians to let them know that it is due.
 - **Late assignments will lose points and will not be accepted after the first week of school.**
- Students who arrive without their work done will still be expected to complete the work and will be given another summer assignment packet.
- Students who are new to the district will be expected to complete this work and will be given a packet and project. They will be given seven days to complete this packet without points being taken off.



How to support your child:

- Set up a schedule with your child to break the assignment into manageable parts throughout the summer.
- Monitor your child's progress on a weekly basis.

STUDENT RESPONSIBILITIES:

- ❖ All students are responsible for completing the summer assignment.
- ❖ Be sure to put the assignment in a safe place so you will not lose it.
- ❖ Attempt to answer every question. Leave nothing blank.
- ❖ Calculators may not be used. You must show all of your math work in pencil. Answers should be in lowest terms.
- ❖ If you need help, ask your parent/guardian to use the math websites listed below.
- ❖ **Turn in your completed summer packet to your 6th grade math teacher on the first day of school. Late projects will lose 10 points a day and will not be accepted after the first week of school.**

I understand the summer assignment expectations and policies.

STUDENT SIGNATURE: _____

PARENT SIGNATURE: _____

Math notes and helpful tips:

- ✓ When adding or subtracting whole numbers or decimals, line up the place values.
- ✓ When adding or subtracting fractions, find the common denominator.
- ✓ Factors are numbers that can be evenly divided into a number...the factors of 6 are 1, 2, 3 and 6.
- ✓ Multiples are the product of a number and any other number...some multiples of 5 are 0, 5, 10, 15, 20, etc.
- ✓ To change a fraction into a decimal, divide the numerator by the denominator.
- ✓ To change a decimal to a fraction, put the number without a decimal over the place value of the last digit and simplify to lowest terms.



Need more assistance? Check out these websites!

<https://www.khanacademy.org/>

<http://www.aplusmath.com/>

<http://mathforum.org/dr.math/>

Teachertube.com

Good luck and see you in September!

Computations

Addition

1. $27,000 + 9,000 =$ _____

2. $8,000 + 5,000 =$ _____

3. $2.3 + 12.87 =$ _____

4. $23 + 16 + 38 =$ _____

5. $32,000 + 8,000 =$ _____

6. $9,034 + 6,079 + 12,498 =$ _____

7. $1300 + \underline{\hspace{2cm}} = 5,000$

Subtraction

8. $53,000 - 4000 =$ _____

9. $747 - 3 =$ _____

10. $6000 - 2000 =$ _____

11. $279,596 - 57,621 =$ _____

12. $76.2 - 41.01 =$ _____

13. $45,000 - 6,000 =$ _____

14. $530,000 - 16,000 =$ _____

15. $42,802 - 1557 =$ _____

16. Estimate. $2,736 - 528 \approx$ _____

17. $12 - 2.5 =$ _____

18. $27,900 - \underline{\hspace{2cm}} = 22,500$

Multiplication

19. $800 \times 2 =$ _____

20. $500 \times 4 =$ _____

21. $93 \times 100 =$ _____

22. $385 \times 37 =$ _____

23. $326 \times 208 =$ _____

24. Estimate. $357 \times 132 \approx$ _____

25. $2,000 \times 6 =$ _____

Division

26. $900 \div 30 =$ _____

27. $3048 \div 24 =$ _____

28. $1,800 \div 6 =$ _____

29. $43,280 \div 40 =$ _____

30. $1,513 \div 17 =$ _____

31. $5600 \div 7 =$ _____

32. $53 \div 16 =$ _____

33. $981 \div 314 =$ _____

34. Estimate. $1,488 \div 13 \approx$ _____

Arranging Numbers

1. Which of the following has the least value?: .5, .005, .05, 5

2. Arrange the numbers below from smallest to largest.
94, 2112, 212, 1211
-

3. Order from smallest to largest: **10.2, 10.19, 10.01, 10.02**
-

4. Order from least to greatest: **56, 23, 34**
-

Rounding Numbers

1. Round 43,192 to the nearest ten. _____
2. Round 245,230 to the nearest thousand. _____
3. Round 14,563 to the nearest hundred. _____
4. Round 245.675 to the nearest tenth. _____
5. Which of the following is nearest to 4? Write the letter of the response.

A. 3.18 b) 3.1112 c) 4.910 d) 4.45

Fractions

Adding and Subtracting Fractions

9. $\frac{3}{4} + \frac{1}{8} =$ _____

$$10. \frac{9}{10} - \frac{3}{4} = \underline{\hspace{2cm}}$$

$$10. 12 - \frac{2}{5} = \underline{\hspace{2cm}}$$

$$8. 4\frac{4}{14} - 1\frac{5}{12} = \underline{\hspace{2cm}}$$

$$17. 4\frac{3}{10} - 3\frac{5}{6} = \underline{\hspace{2cm}}$$

$$7. 1\frac{2}{7} + 8\frac{1}{5} = \underline{\hspace{2cm}}$$

$$8. 4\frac{7}{8} - 2\frac{5}{12} = \underline{\hspace{2cm}}$$

$$17. \frac{1}{5} + \frac{9}{20} = \underline{\hspace{2cm}}$$

Word Problems

1. Write six tenths in numerals.

2. Simplify $\frac{32}{96}$ to lowest terms.

3. Express **45** minutes as a fraction of **1** hour in lowest terms.

4. Express 8 inches as a fraction of 3 feet in lowest terms.

5. How many minutes are there in $2\frac{3}{5}$ hours?

6. Grace is 9 years old and Ruth is 6 years older than Grace. Express Ruth's age as a fraction of their total age in lowest terms.

7. Express 15 cents as a fraction of \$1 in lowest terms.

8. Lily is $6\frac{1}{4}$ years old and Susan is $2\frac{1}{2}$ years old. How much older is Lily than Susan?

9. Rick read $\frac{1}{3}$ of his summer reading book over the weekend and $\frac{1}{6}$ on Tuesday. What fraction of the book did he have left to read? _____

10. Mary is taking a 5,700 mile trip. She has traveled $\frac{1}{3}$ of the distance. How much further does she have to go? _____

11. Mrs. Meyer jogs $\frac{3}{4}$ of a mile in a day. How many miles does she jog in 8 days? _____

12. Lily used $2\frac{7}{8}$ quarts of paint for her room and she still had $5\frac{3}{8}$ quarts of paint left. How much paint did she have at first? _____

13. A clerk works $3\frac{5}{6}$ hours in the morning and $3\frac{4}{5}$ hours in the afternoon. How many hours does she work in a day? _____

14. Joe bought 9 pounds of crawfish on Friday. He ate $2\frac{3}{4}$ pounds on Friday and $3\frac{3}{5}$ pounds on Saturday. He many pounds did he have left? _____

Prime Numbers

1. List the prime numbers from 0 - 20. _____

2. List the prime numbers from 21 - 40. _____

3. List the prime numbers from 41 – 60. _____

4. List the prime numbers from 61 – 80. _____

Mixed Numbers and Improper Fractions

1. Write $\frac{7}{2}$ as a mixed number. _____
2. Write $4\frac{2}{3}$ as an improper fraction. _____
3. How many sevenths are there in $3\frac{5}{7}$? _____
4. Write $9\frac{2}{11}$ as an improper fraction. _____
5. Write $\frac{19}{6}$ as a mixed number. _____
6. Write $\frac{23}{4}$ as a mixed number. _____

Inequalities

1. Use one of these symbols =, >, < to make the sentence true: $4\frac{1}{2}$ _____ $\frac{4}{24}$
2. Compare using >, <, or =: $\frac{3}{17}$.317
3. Compare using >, <, or =. $\frac{10}{13}$ $\frac{0}{3}$
4. Compare using >, <, or =. $3\frac{4}{8}$ $4\frac{1}{4}$
5. Which is longer, 17 months or $1\frac{2}{3}$ years? _____

Order of Operations

1. $5 \times 10 - 6 + 49 \div 7 =$ _____
2. $3 \times 3 - 45 \div (4 + 1) =$ _____
3. $30 - 3 \div 9 + 34 =$ _____
4. $5 \times (36 + 14 - 3 \times 6) \div 8 =$ _____

5. $54 - 12 \times 13 - 4 \div 3 + 6 =$ _____

Multiples and Factors

1. Write the first 5 multiples of 8. _____

2. What is the GCF of 12 and 20? _____

3. What are the first 3 common multiples of 6 and 9?

4. I am between 15 and 25. I am a multiple of 5. I am a factor of 40.
What number am I? _____

5. I am smaller than 24. I am a common multiple of 7 and 3.
What number am I? _____

6. I am bigger than 10. I am a common factor of 65 and 117.
What number am I? _____

7. What is the LCM of 9 and 12? _____

8. List the factors of 75. _____

9. List the factors of 84. _____

10. List the factors of 24. _____

11. I am between 10 and 15. I am a multiple of 2. I am a factor of 48.
What number am I? _____

Converting Fractions, Decimals, and Percentages

Complete the tables below:

Fractions	Decimals	Percentage
		100%
	.75	
$\frac{7}{10}$		

Fractions	Decimals	Percentage
		60%
	.2	
$\frac{89}{100}$		

1. Write your answer as a decimal: $\frac{9}{100} + 3 + \frac{7}{10} =$ _____

Word Problems

1. Mr. Math had \$75. He kept \$35 for himself and split the rest equally between his son and daughter. How much did each child get? _____

2. Andrew has 7 boxes of cake. Three of the boxes have 8 pieces each. The other 4 boxes have 40 pieces altogether. How many pieces of cake are there in the 7 boxes? _____

3. A gallon of milk was poured equally into 9 glasses. How many cups are in each glass? Give your answer as a mixed number. _____

4. Michael has 1,200 rubber bands. He puts them equally into 10 circles. How many rubber bands are there altogether in 6 of the circles? _____

5. Lee bought 5 packages of white envelopes and 3 packages of brown envelopes. There were 112 envelopes in each package.
How many envelopes did she buy altogether? _____

6. Robert packed 1320 cookies into bags of 22 each. He sold all of the cookies at \$2 per bag. How much money did he make? _____

Solve problems 1 & 2 below. Write a justification explaining your answer and solution on the next page. Use complete sentences.

1. Bob sold 5 toaster ovens and 3 blenders for \$500. If a blender costs \$20 less than a toaster oven, how much is a blender? Show your work below.

2. Elizabeth and Mimi are playing a factor game. Elizabeth told Mimi that she was thinking of a mystery number that had 2, 7, and 9 as factors. She said there were nine other factors of her number. What are the other factors of her number? What is her mystery number?