

**Summer  
Math  
Packet for  
Rising 6<sup>th</sup>  
Graders  
Summer 2023**

**Name:** \_\_\_\_\_



Dear Parents/Guardians,

Each student is expected to engage in fun and consistent math practice throughout the summer to avoid the summer slide. Brains need rest too, however, so don't forget to have fun!

**Summer Work Expectations and Guidelines:**

Print out this packet. If you don't have access to a printer, you may pick up a hard copy at school. The packet is due the first week of school.

\*The packet includes problems that have been taught throughout this school year.

\*If your child completes the packet in June and doesn't solve any math problems for the rest of the summer, he/she will lose some very important concepts. This packet should be spread out, repeated or tweaked along the way to provide consistent practice.

**Suggested Schedule:**

**Weekly:**

Multiplication and Division facts should be practiced weekly.

**Bi-Monthly/Monthly:**

Comprehensive review of the concepts included in the packet.

**Fun Math Activities to Strengthen Math Skills:**

\*Involve your child in your shopping experiences (estimation/counting money)

\*Board Games are a wonderful way for your child to learn turn-taking, game strategies, money, counting, and perseverance.

\*Measure, cook and bake with your child!

\*Involve your child in calculating distance traveled, time spent traveling and make the "Are we there yet?" into a math problem!

Have a wonderful Math Filled Summer!

## 5th into 6th grade SUMMER MATH PACKET

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### Write Numbers in Words and Digits

Exercises: Write the number name.

1. 560.08

2. 7.016

3. 24.47

4. 6,003

5. 3,005,600.07

Write the number the name represents:

6. Forty-five thousandths

7. Seventeen and seven hundredths

8. Five million, three hundred thousand, twenty-nine and six tenths

9. Six million and five thousandths

10. Two hundred eight thousand, four

### Order Decimals

## 5th into 6th grade SUMMER MATH PACKET

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Exercises: List each group of numbers in order **from least to greatest**:

1. ) 20, 4, .6, .08

2. ) 246.8, 248.6, 244.9, 246.5

3. ) 1.03, 2.4, .89, .987

4. ) 14.8, 2.68, .879, 8.47

5. ) 5.3, 5.12, 5.38, 5.29

6. ) 54.89, 56.3, 58.1, 52.98

7. ) 4, .006, .8, .07

8. ) 297, 3.456, 64.4, 7.24

9. ) 794, 793.8, 794.65, 794.7

10. ) 9, 6.7, 7.24, 14

11. ) 4.2, 4.19, 4.07, 4.3

12. ) 3.75, 6.7, 3.8, .45

**Add and Subtract Whole Numbers**

## 5th into 6th grade SUMMER MATH PACKET

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Solve: No Calculators! Use scratch paper and STAPLE TO THE BACK for credit, if needed. **No work = no credit.**

1.)  $6,496 + 3,288 =$

2.)  $54,398 + 64,508 =$

3.)  $3,254 + 4,113 =$

4.)  $754 - 549 =$

5.)  $54,678 + 74,357 =$

6.)  $98,455 - 14,789 =$

7.)  $38,904 - 32,899 =$

8.)  $908 - 774 =$

**Multiply and Divide Whole Numbers**

## 5th into 6th grade SUMMER MATH PACKET

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Hints/Guide: You may use standard multiplication practices or lattice. To divide, please clarify the quotient and remainder. **BONUS:** if you can change your remainder to a decimal, please provide the answer. No Calculators! Use scratch paper and STAPLE TO THE BACK for credit, if needed. **No work = no credit.**

$24 \div 3 =$

$24 \div 6 =$

$16 \times 15 =$

$20 \div 5 =$

$74 \times 10 =$

$190 \div 19 =$

$32 \div 2 =$

$79 \times 9 =$

$216 \div 12 =$

$444 \times 77 =$

$114 \div 14 =$

$4 \times 58 =$

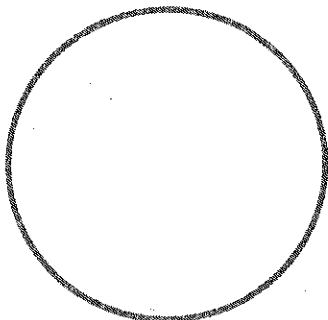
**Background of Fractions**

## 5th into 6th grade SUMMER MATH PACKET

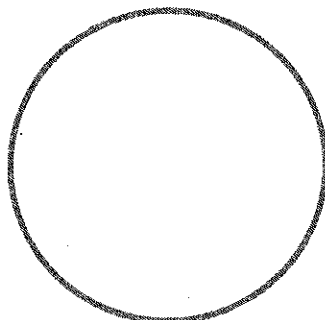
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Split and Label the following fractional parts (circles) with the given fractions.

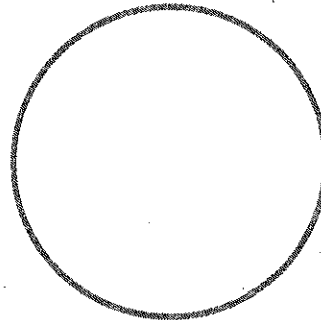
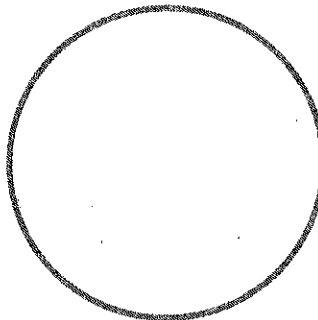
1.  $\frac{4}{5}$



2.  $\frac{7}{8}$



3.  $\frac{4}{2}$



### Fraction Operations

Hints/Guide: When adding and subtracting fractions, we need to be sure that each fraction has the same denominator, then add or subtract the numerators together.

Exercises: Perform the indicated operation: No Calculators! Use scratch paper and STAPLE TO THE BACK for credit, if needed. **No work = no credit.**

1.  $\frac{1}{2} + \frac{3}{4}$

4.  $\frac{5}{10} + \frac{1}{2}$

2.  $\frac{5}{8} + \frac{3}{4}$

5.  $\frac{3}{4} - \frac{2}{8}$

3.  $\frac{7}{3} + \frac{1}{3}$

6.  $\frac{20}{50} - \frac{1}{10}$

### Add and Subtract Decimals

## 5th into 6th grade SUMMER MATH PACKET

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Hints/Guide: When adding and subtracting decimals, the key is to line up the decimals above each other, add zeros to have all of the numbers have the same place value length, then use the same rules as adding and subtracting whole numbers, with the answer having a decimal point in line with the problem.

Solve: No Calculators! Use scratch paper and STAPLE TO THE BACK for credit, if needed. **No work = no credit.**

1)  $15.7 + 2.34 + 5.06 =$

2)  $64.038 + 164.8 + 15.7 =$

3)  $2.6 + 64.89 + 4.007 =$

4)  $12.9 + 2.008 + 75.9 =$

5)  $87.4 - 56.09 =$

6)  $5.908 - 4.72 =$

7)  $68.9 - 24.74 =$

8)  $955.3 - 242.7 =$

**Reading Scales and Finding Area and Perimeter**

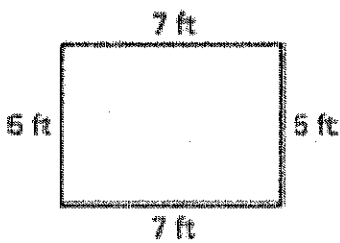


# 5th into 6th grade SUMMER MATH PACKET

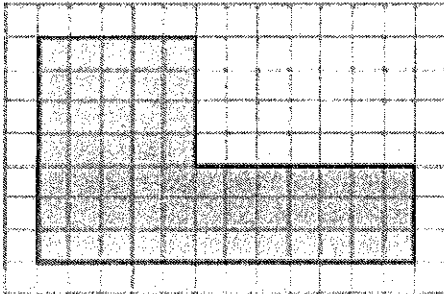
Hints/Guide: To determine the correct answer when reading scales, the important thing to remember is to determine the increments (the amount of each mark) of the given scale.

To find the perimeter of a rectangle or square, we must add the lengths of all of the sides together. To find the area of a square or a rectangle, we must multiply the length by the width.

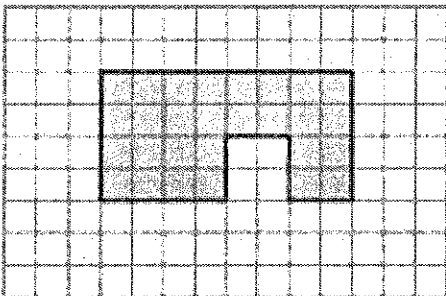
Exercises: Find the area and perimeter of the following. All units are in feet.



area \_\_\_\_\_ perimeter \_\_\_\_\_



area \_\_\_\_\_ perimeter \_\_\_\_\_

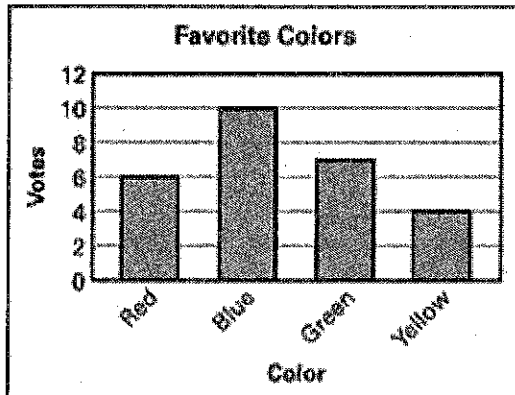


area \_\_\_\_\_ perimeter \_\_\_\_\_

Using data to find answers.

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Use the bar graph.

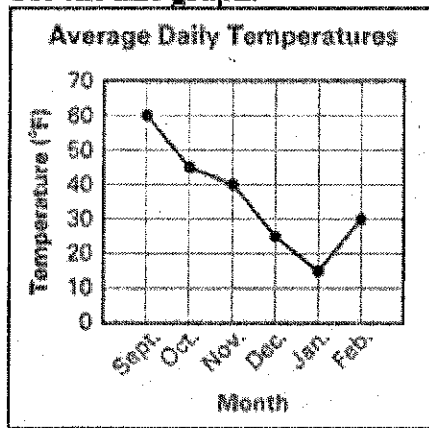


What color did 7 people vote for?

What color had 4 fewer votes than blue?

What was the total number of votes for red and yellow?

Use the line graph.

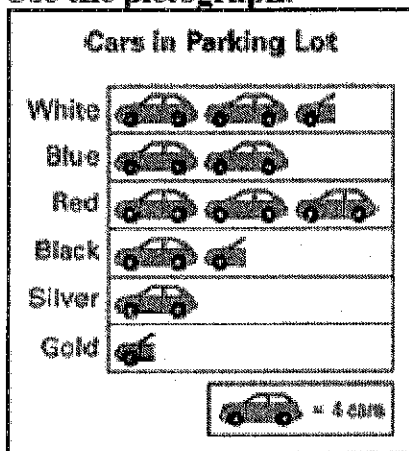


In which month was the average daily temperature the lowest?

What is the difference between the average daily temperatures for November and December?

What was the average daily temperature for October?

Use the pictograph.



How many black cars were in the parking lot?

How many fewer silver cars were in the parking lot than red cars?

Which color car has twice as many in the parking lot as silver cars?

## 5th into 6th grade SUMMER MATH PACKET

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**Find the Mean/Average, Median, Mode, and Range of a Set of Numbers**

Exercises: No Calculators! Use scratch paper and STAPLE TO THE BACK for credit, if needed. **No work = no credit.**

**Data Set: 5, 12, 6, 3, 8, 16, 8, 6**

Mean:

Median:

Mode:

Range:

**Data Set: 2, 7, 4, 11, 12, 4, 6**

Mean:

Median:

Mode:

Range:

# 5th into 6th grade SUMMER MATH PACKET

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## Factors and Multiples.

Make a factor rainbow for the following. Circle the Greatest Common Factor.

1) 18 and 24

2) 12 and 15

3) 17 and 20

4) 21 and 40

Find the first 10 multiples of the following. Circle the Least Common Multiple.

1) 12 and 4

2) 9 and 8