

Top **± 10** items to review over the summer

Students entering Grade 6

1. Add/Subtract numbers in the billions

For example:

| |
|---|
| $51,283,000 = \underline{\hspace{2cm}} + 80,000 + 3,000$ |
| $95,087,000 = 90,000,000 + \underline{\hspace{2cm}} + 80,000 + 7,000$ |

2. Multiply/Divide numbers within 10,000 by a 2-digit numbers

For Example:

| | |
|-------------------|--------------------|
| $76 \div 23 =$ | $8513 \div 36 =$ |
| $258 \times 24 =$ | $4872 \times 44 =$ |

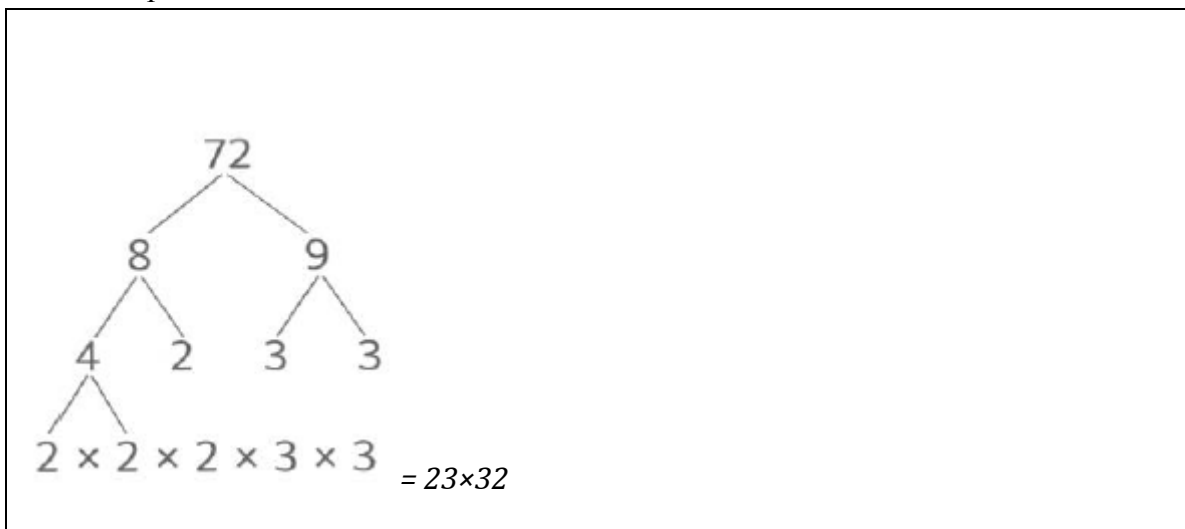
3. Find the factors and common factors of whole numbers within 100

Find the greatest common factor of up to 3 numbers within 100

Common multiples and least common multiples

4. Determine the prime factors of numbers within 100 and write the numbers as products of prime numbers, using exponents

For Example:



5. Use order of operations to solve mathematical expressions with or without parentheses

For Example:

| | |
|---------------------------|-----------------------------------|
| $2 \times 28 + 36 - 49 =$ | $29 + (300 \div 10 - 3 \times 9)$ |
|---------------------------|-----------------------------------|

6. Fractions

Find a fraction of a set where the answer is a whole number or a mixed number

Add/Subtract unlike fractions and mixed numbers

Relate division to fractions

Multiply/Divide a fraction by a whole number and by a fraction

For Example:

| | |
|--------------------|---------------|
| Express 35 m in cm | $434 - 23 =$ |
| 720×4 | $78 \div 2 =$ |
| $212 + 545 =$ | $38 \div 37$ |

7. Decimals

Understand tenths, hundredths, thousandths, locate decimal numbers on a number line, compare decimal numbers

Convert a decimal to a fraction and simplify

Convert a fraction to a decimal number (denominators are a factor of 10, 100, or 1000)

Compare and order decimal numbers up to 3 decimal places and fractions

Round decimal numbers up to 3 places to the nearest whole number, to –decimal place, or to 2-decimal places

Add/Subtract decimal numbers of up to 3 decimal places

Multiply/Divide decimal number of up to 2 decimal places by a whole number

Find the quotient of a division problem correct to 2-decimal places

Convert fractions to decimals correct to 2-decimal places

Multiply/Divide decimal number by tens, hundreds, or thousands

Multiply/Divide a decimal number by a 2-digit whole number

Multiply/Divide a whole number or a decimal by a decimal

For Example:

| | |
|---|-------------------------|
| Arrange in decreasing order: $1.09, 1.03, 16, 116$ | $.39 \times 6.7 =$ |
| Express as a fraction in simplest form: $0.6, 4.40, 6.105$ | $4.07 \div 0.74 =$ |
| Express as a decimal. $4710, 81225$ | $1.909 = 1 + 10 + 1000$ |

8. Know divisibility rules

9. Memorize and understand properties

