

Summer Math Practice for Upcoming 6th Graders:

Due by August 10, 2026

Complete the following practice problems to review important concepts before the new school year. In 6th grade, we focus heavily on the processes that we use to solve a problem, so understanding **how** you get the answer that you write down is a very important part of truly mastering that skill. To help me see where your current level of understanding is, **please use words or numbers to show me how you arrived at each of your answers.** (Also, please do not use calculators on any question!)

Standards Covered

- **5.MD.A.1** – Convert measurements within the same system
- **5.NF.A.1** – Add/subtract fractions with unlike denominators
- **5.NF.A.2** – Solve word problems with fractions
- **5.NF.B.3** – Interpret fractions as division
- **5.NF.B.4** – Multiply fractions
- **5.NF.B.7** – Divide fractions
- **5.NBT.A.1** – Place value patterns
- **5.NBT.A.2** – Powers of 10
- **5.NBT.A.3** – Read/write/compare decimals
- **5.NBT.A.4** – Round decimals
- **5.NBT.B.5** – Multiply multi-digit numbers
- **5.NBT.B.6** – Divide whole numbers
- **5.NBT.B.7** – Decimal operations
- **5.OA.A.1** – Order of operations
- **5.OA.A.2** – Write/evaluate expressions
- **5.OA.B.3** – Numerical patterns
- **4.MD.A.2** – Measurement problem solving
- **4.MD.A.3** – Area and perimeter

If you need help finding or reviewing a process, I've found many good videos through Khan Academy, Math with Mr. J, or Mathantics. They usually do a good job explaining the "why" behind the math, and they use kid-friendly explanations while clearly showing the steps of the process.

I'm so excited for our upcoming year together! See you in August! 😊

Mrs. Savoy

Week 1: Measurement & Conversions

Focus Skill: Converting measurements and solving measurement word problems.

<p>Convert 7 yards to inches.</p>	<p>Convert 96 ounces to pounds.</p>
<p>Convert 5 gallons to cups.</p>	<p>How many pints are in 7 quarts of lemonade?</p>
<p>Find the area of a rectangle with length 9 cm and width 6 cm.</p>	<p>Find the perimeter of a rectangle with sides 12 ft and 8 ft.</p>
<p>A garden is 14 meters long and 5 meters wide. Find the area.</p>	<p>A rectangular window has side lengths of 16 in and 3 feet. Find its perimeter in inches.</p>

Week 2: Place Value & Number Forms

Focus Skill: Understanding place value relationships and writing numbers in different forms.

Write 5,478,392 in expanded form.	Write 10^3 as a standard number.
Compare 7.405 and 7.45 using a $<$, $>$ or $=$ sign.	Round 93.786 to the nearest tenth.
Compare 7.405 and $7\frac{3}{8}$ using a $<$, $>$ or $=$ sign.	Write 0.004 in word form.
Which digit is in the hundredths place in 46.582?	Order from least to greatest: 4.8, 4.08, $4\frac{1}{8}$, 4.812, $4\frac{1}{2}$, 4.18, 4.801

Week 3: Decimal Operations

Focus Skill: Adding, subtracting, multiplying, and dividing decimals.

$8.37 + 5.92 =$

$17.5 - 8.68 =$

$6.4 \times 3.2 =$

$48.6 \div 6 =$

$12.75 + 6.809 =$

$24.3 - 7.95 =$

$9.5 \times 4 =$

$1,562 \div 4 =$

Week 4: Fraction Addition & Subtraction

Focus Skill: Solving fraction problems with unlike denominators.

Solve and Simplify: $\frac{2}{5} + \frac{3}{10} =$

Solve and Simplify: $\frac{7}{8} - \frac{1}{4} =$

Solve and Simplify: $\frac{5}{6} + \frac{1}{3} =$

Solve and Simplify: $\frac{9}{10} - \frac{2}{5} =$

Sarah is making a quilt. On Monday she finished $\frac{3}{4}$ of the quilt. On Tuesday she completed another $\frac{1}{12}$ of her quilt. How much has she completed total of her quilt? Simplify your answer.

A large water tank was $\frac{11}{15}$ full at the start of the day. During the day, $\frac{2}{3}$ of the tank was used for watering plants. How much water is left in the tank?

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

$4\frac{1}{3} - 2\frac{5}{6} =$

Week 5: Fraction Multiplication & Division

Focus Skill: Multiplying and dividing fractions in real-world and numerical problems.

$$\frac{3}{4} \times \frac{2}{5} =$$

$$\frac{5}{6} \times \frac{3}{8} =$$

$$\frac{7}{9} \div \frac{1}{3} =$$

$$\frac{4}{5} \div \frac{2}{3} =$$

Each day after soccer practice, Marcus drinks $\frac{2}{3}$ of a bottle of Gatorade. If he does this for 3 days, how many bottles of Gatorade does Marcus drink in all? Simplify if necessary.

A recipe calls for $\frac{4}{7}$ cup of sugar for one batch of cookies. Mia has $\frac{3}{4}$ cup of sugar available. How many full batches of cookies can she make? Simplify if necessary.

$$2\frac{1}{2} \times 1\frac{1}{5} =$$

$$3\frac{3}{4} \div 1\frac{1}{2} =$$

Week 6: Expressions & Order of Operations

Focus Skill: Evaluating expressions and applying operation order.

$8 + 4 \times 3$	$\left(\frac{9}{12} - \frac{1}{4}\right) \times 6$
$6 \times (7.64 - 3.41) \div 3$	Write an expression and then solve: "5 more than 3 times 8"
$13 + (18 \times 6) - 6 + 8$	$18 \div 3 + 9 \times 2$
$(12 + 8) \div 4$	$(65 + 2) \times 15 - 14$

Week 7: Patterns & Problem Solving

Focus Skill: Identifying numerical patterns and solving multi-step problems.

<p>Find next two values: 4, 8, 16, ____, ____</p> <p>What was the rule?</p>	<p>Find the next 3 values: 7, 10, 13, 16, _____, _____, _____</p> <p>What was the rule?</p>
<p>A store sells 6 pencils for \$3. How much would it cost for 18 pencils?</p>	<p>A car travels 180 miles in 3 hours. What rate is it traveling per hour?</p>
<p>Solve: A rectangle is twice as long as it is wide. If its width is 6, what is its length?</p> <p>What is its area?</p>	<p>Complete pattern: 81, 27, 9, _____, _____, _____, _____.</p>
<p>A recipe triples from 5 servings to 15. If the original uses 2 cups milk, what would the tripled recipe use?</p>	<p>Describe the rule of this pattern: 2, 5, 10, 17, 26</p> <p>How do you know?</p>

Week 8: Miscellaneous Skills

Focus Skills: Other skills that will be necessary for 6th grade and that we will be building on.

Find the Greatest Common Factor (GCF) and Least Common Multiple (LCM) of 20 and 36.	Evaluate: $978 \times 526 =$
Evaluate: $9,813 \div 15 =$ (write your answer as either a decimal or a fraction)	Convert $\frac{7}{8}$ to a decimal.
Convert 0.65 to a fraction in simplest form.	Evaluate: $85,002 - 32,978 =$
Write 2 equivalent fractions to $\frac{3}{7}$	Write 100,000 using an exponent.