

Set 1: Summer Math Practice – Algebra 1 Show all your work in each box. No calculators allowed.

1. $3\frac{1}{2} + 5\frac{2}{3}$	2. $4.6 - 3.98$
3. $-3 \times 4 + 6 - 4 \div 2$	4. Evaluate: $-5 k + 1 $ when $k = -11$
5. Simplify: $\frac{36}{40}$	6. Solve: $\frac{n}{6} = \frac{3}{8}$
7. Write $\frac{7}{10}$ as a percent	8. Solve: $85 + a = 150$
9. Solve: $6x + 8 = 50$	10. Find the GCF and LCM of 15 and 60
11. Write an algebraic expression for: “the sum of 32 and x”	12. Estimate to the nearest whole number $3\frac{1}{5} + 9\frac{9}{10}$
13. Find the area and perimeter of a square with sides of 3 inches	14. Find the prime factorization of 56
15. What is 25% of 32?	16. Simplify: $\sqrt{9} + \sqrt{4}$
17. Simplify: $3 + 4(2 + 1)^2$	18. Solve: $-3 = \frac{n}{-6} + 9$
19. Place the following <i>Real</i> numbers in order from least to greatest $\{\frac{1}{3}, \frac{1}{2}, 0.7, 0, -5, -2\}$	20. List the first four (non-zero) multiples of 5

Set 2: Summer Math Practice – Algebra 1 Show all work in each box. No calculators allowed.

1. $8 - 4\frac{2}{7}$	2. $(4.23)(1.6)$
3. $6 + 18 \div (-3)$	4. Evaluate: $4v^3$ when $v = -5$
5. Simplify: $\frac{5}{30}$	6. Solve: $\frac{15}{10} = \frac{3}{k}$
7. Write $\frac{5}{8}$ as a decimal	8. Solve: $u - 18.4 = 39$
9. Solve: $\frac{d}{10} - 20 = 16$	10. Find the GCF and LCM of 8 and 20
11. Simplify: $2^3 \times 3 \times 5^2$	12. Estimate (to the nearest dollar): $\$7.91 - \2.05
13. Find the area <u>and</u> perimeter of a right triangle having legs of 3 cm and 4 cm and a hypotenuse of 5 cm	14. Write an algebraic expression for “the quotient of 5 and x”
15. 20% of what is 14?	16. Simplify: $\sqrt{49} - \sqrt{25}$
17. Simplify: $25 - 2(3)^2$	18. Solve: $\frac{x-6}{3} = -12$
19. Place the following Real numbers in order from least to greatest. $\{-\frac{3}{4}, \frac{-4}{3}, 1, \frac{3}{4}, 0\}$	20. What is the “rule” to see if a number is divisible by nine?

Set 3: Summer Math Practice – Algebra 1 Show all work in each box. No calculators allowed.

1. Multiply: $1\frac{3}{7} \times 2\frac{4}{5}$	2. Divide: $27 \div 0.3$
3. Simplify: $\frac{5(6-2)}{2(4+3)}$	4. Simplify: $2^3 + 7 - 9 $
5. Simplify: $\frac{56}{84}$	6. Simplify: $\frac{\sqrt{36}}{\sqrt{4}}$
7. Write 60% as a fraction	8. Solve: $\frac{m}{5} = 30$
9. Solve: $5x - 1.5 = 0$	10. Find the GCF and LCM of 6 and 9
11. Write an algebraic expression for “x subtracted from 8”	12. Estimate 39.46 to the nearest integer
13. Find the area and circumference of a circle with radius 5 cm. (use $\pi \approx 3.14$)	14. Write the prime factorization of 120
15. 6 is what percent of 4?	16. At 60 mph a car travels 88 feet per second. How many feet per second does a car travel at 15 mph?
17. Simplify: $3 + 9^2 \div 3$	18. Solve: $3n - 7 = -19$
19. Place the following Real numbers in order from least to greatest: $\{-1.2, 3.5, \frac{-4}{5}, \frac{1}{2}, -\frac{6}{3}\}$	20. How many factors does 24 have?