

SUMMER MATH
ENTERING ALGEBRA I

SHOW ALL STEPS ON THIS PAPER!
DO NOT USE A CALCULATOR!

Name _____
Date Completed _____
Parent Signature _____
Parent email and/or phone number: _____

You must know your multiplication facts.

1. Simplify: $\sqrt{49} + \sqrt{25} - \sqrt{81} + \sqrt{121}$	2. Reduce to lowest terms: $\frac{360}{540}$	3. Simplify: $15 + 4(3 + 7)^2$
4. Simplify: $\frac{2}{3} + \frac{5}{6} + \frac{7}{12}$ <i>(hint: find common denominators)</i>	5. Break down 120 into all prime factors: <i>(hint: factor tree)</i>	6. Complete using long division: $21 \overline{)6756}$
7. Simplify $\frac{48}{49} \times \frac{21}{40}$ <i>(hint: cross simplify first)</i>	8. Simplify: $67 \times 3 \times 10^3$ <i>Show work; no calculator!</i>	9. Solve: $3x - 7 = -19$
10. Solve the number riddle: I am thinking of a number. It is bigger than 100 and less than 500. It is divisible by 9 and 5. All its digits are odd. What is my number? Explain how you figured it out.	11. Change 55% to a fraction in lowest terms:	12. Find 35% of 40:

REMEMBER:

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1. Simplify: $12 - 6 \times 4 \div 3 + 4$	2. Simplify: $\frac{2}{3} \div \frac{10}{9}$	3. Simplify: $-5 - 18$
4. Simplify: $3\frac{2}{3} - \frac{5}{6}$ <i>(hint: find common denominator)</i>	5. Simplify: $-5 + 18$	6. Simplify: $2^3 \times 5^2$
7. Place in order from least to greatest: $-\frac{3}{4}; -\frac{4}{3}; 1; \frac{3}{4}; 0$	8. A square has 3 inch sides. Find the Area: Find the Perimeter:	9. Solve: $\frac{x-6}{3} = -12$
10. Evaluate $2a + 5$ if $a = 7$	11. Change 60% to a fraction in lowest terms:	12. Write the following as an expression: The sum of twice a number and seven