

SMS Summer Math Packet

Complete week 1
Parent Signature: _____
Date: _____

1. Rename 84% as a decimal and as a fraction in simplest form.	2. Rename 28% as a fraction in simplest form and as a decimal.	3. Rename 2.15 as a fraction in simplest form and as a percent.	4. Rename $\frac{32}{100}$ as a fraction in simplest form, as a decimal and as a percent.
5. Simplify: $5\frac{3}{5} - 3\frac{1}{4}$	6. Simplify: $10\frac{1}{2} - 2\frac{3}{4}$	7. Multiply and simplify: $\frac{5}{6} \times \frac{3}{8}$	8. Multiply and simplify: $2\frac{3}{8} \times \frac{1}{2}$
9. What is 10% of 670?	10. What is 25% of 1,000?	11. Divide: $16.30 \div 5$	12. Multiply: 5.82×0.25
13. What is 20% of 140?	14. What is 15% of 60?	15. Evaluate the expression: $(4 + 4) \cdot 4 - 4 \div 4^2$	16. Evaluate the expression: $0.25(200 - 72) + 22.9$

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Complete week 2
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<p>1. Simplify: $6\frac{2}{5} - 4\frac{1}{4}$</p>	<p>2. Simplify: $18\frac{1}{2} - (-4\frac{3}{4})$</p>	<p>3. Multiply and simplify: $\frac{3}{7} \cdot \frac{-3}{6}$</p>	<p>4. Multiply and simplify: $\frac{-1}{12} \cdot \frac{-6}{14}$</p>
<p>5. What is 12% of 340?</p>	<p>6. What is 25% of 650?</p>	<p>7. Divide: $19.30 \div 4.2$</p>	<p>8. Multiply: 5.94×3.25</p>
<p>9. What is 20% of 87?</p>	<p>10. What is 127% of 60?</p>	<p>11. Evaluate the expression: $(4 + 4) \cdot 4 - 4 + 4$</p>	<p>12. Evaluate the expression: $0.35(20 - 94) + 38.9$</p>
<p>13. Rename 332% as a fraction in simplest form and as a decimal.</p>	<p>14. Rename $\frac{9}{7}$ as a decimal and a percent (to the nearest tenth if necessary).</p>	<p>15. Rename .62 as a fraction in simplest form and as a percent.</p>	<p>16. Rename 4.55 as a fraction in simplest form and as a percent.</p>

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Complete week 3
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<p>1. Multiply: $3\frac{7}{30} \cdot \frac{9}{20}$</p>	<p>2. Evaluate $4\frac{7}{12} + 9\frac{57}{100}$</p>	<p>3. Evaluate: $27\frac{15}{50} - 19\frac{7}{15}$</p>	<p>4. Divide: $\frac{4}{9} \div \frac{2}{5}$</p>
<p>5. What is 80% of 205?</p>	<p>6. What is 85% of 20?</p>	<p>7. Evaluate the expression: $8 - 8(8+8) + 8 \div 8 + 8$</p>	<p>8. Evaluate the expression: $1.45(150 - 80) - (-12)$</p>
<p>9. Rename 45% as a fraction in simplest form and as a decimal.</p>	<p>10. Rename $\frac{3}{16}$ as a decimal and a percent (to the nearest tenth if necessary).</p>	<p>11. Rename .065 as a fraction in simplest form and as a percent.</p>	<p>12. Rename 1.85 as a fraction in simplest form and as a percent.</p>
<p>13. List the numbers below from least to greatest. $\frac{50}{75}, \frac{24}{60}, 0.408, 43\%$</p>	<p>14. What is the product: $(34.76)(2.64)$</p>	<p>15. Represent \$0.35 as a fraction of a dollar.</p>	<p>16. The Athletes competing in a triathlon race will bicycle 12.9 miles, swim 0.75 mile, and run 5.77 miles. What will be the total length of the race?</p>

SMS Summer Math Packet

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<p>1. Simplify: $48 - 3(2^2) + 1^3$</p>	<p>2. What is 20% of 60?</p>	<p>3. 22 is 40% of what number?</p>	<p>4. What percent of 63 is 34?</p>
<p>5. Simplify to Unit Rate: $\frac{72 \text{ meters}}{8 \text{ seconds}}$</p>	<p>6. Simplify to Unit Rate: $\frac{56 \text{ feet}}{7 \text{ minute}}$</p>	<p>7. Solve the proportion: $\frac{4}{9} = \frac{x}{39}$</p>	<p>8. Solve the proportion: $\frac{7}{3} = \frac{x}{55}$</p>
<p>9. What is the value of x in the equation below? $3(x + 2) \geq 18$</p>	<p>10. Evaluate: $(-9)^3$</p>	<p>11. Look at the list of numbers below: $30\%, \frac{1}{3}, 3 , \frac{2}{5}$ List the numbers in order from least to greatest.</p>	<p>12. Look at the pattern below: $-3, 15, -75, 375, \dots$ If the pattern continues, what will the sixth term be?</p>
<p>13. Simplify the following algebraic expression. $-2(4x - 16) + 11x$</p>	<p>14. What is the value of y in the inequality below? $-12y + 6y - 10 \leq 14$</p>	<p>15. Look at the equation below: $-3(2x + 7) = 33$ What is the value of x in the equation?</p>	<p>16. Simplify the following algebraic expression. $6x + 11 - 3(7x - 8)$</p>

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Complete week: 5
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<p>1. $2.5 - 1.37 + (3.4 \times 1.2)$</p>	<p>2. Order from greatest to least: $45\%, \frac{3}{4}, \frac{1}{3}, 0.5$</p>	<p>3. What is 24% of 250?</p>	<p>4. What is 12% of 820?</p>
<p>5. Solve for x: $2x - 6 = 14$</p>	<p>6. Solve for f: $\frac{2f+3}{3} = 7$</p>	<p>7. Solve for x: $\frac{x}{4} - (-12) = 14$</p>	<p>8. What percent of 52 is 28?</p>
<p>9. Simplify: $3(2x - 8) + (2)^2 \cdot 4$</p>	<p>10. Simplify: $5 - 3(2x - 8) + (2)^2 \cdot 4$</p>	<p>11. Solve the proportion: $\frac{7}{9} = \frac{x}{72}$</p>	<p>12. Solve the proportion: $\frac{8}{3} = \frac{x}{65}$</p>
<p>13. Given the equation in <u>slope-intercept form</u>, what is the slope and the y-intercept? $y = 3x - 5$</p>	<p>14. Are the two ratios proportional? Prove it mathematically. $\frac{9}{4} = \frac{43}{34}$</p>	<p>15. Evaluate $\frac{9}{7} - \frac{12}{8}$</p>	<p>16. Simplify the expression: $23k - (-4k) + 13 - 7k - 16$</p>

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Complete week 0
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<p>1. What is the value of x in this equation?</p> $\frac{2}{3}x = 24$	<p>2. Simplify the expression shown below when c is equal to 2.</p> $\frac{12c^4 + 18}{6}$	<p>3. Solve for x:</p> $8x - 3x + 10x = 75$	<p>4. Simplify this expression.</p> $5x - (3 - 12x)$
<p>5. What is the value of m in this equation?</p> $\frac{8}{11}m = 88$	<p>6. Solve: $-8(-4 - 3x) = 2x$</p>	<p>7. Simplify the following expression: $(3 + 2)^2 - 4 \cdot 8$</p>	<p>8. What is the value of the expression below when $f = -7$ and $g = -3$?</p> $5f - 8g$
<p>9. Simplify this expression if x is equal to 2:</p> $\frac{28x^4 - 49}{7}$	<p>10. Simplify this expression:</p> $3(9x - 5)$	<p>11. Solve for x: $\frac{x}{6} = 20$</p>	<p>12. Simplify this expression: $7(2r + 3)$</p>
<p>13. Look at the inequality below:</p> $-6a + 8a + 90 \leq 92$ <p>What is the value of x in the inequality?</p>	<p>14. What is the value of m in the inequality below?</p> $75 \leq \frac{m}{-5} + 10$	<p>15. Evaluate: $(-4)^2$</p>	<p>16. Simplify the following expression.</p> $(-12 - 3x) - (5x - 8)$

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Complete week 7
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<p>1. Simplify the following algebraic expression.</p> $-3(7x - 14) + 19x$	<p>2. What is the value of y in the inequality below?</p> $-18y + 6y - 10 \leq 26$	<p>3. Look at the equation below:</p> $-3(2x + 5) = 39$ <p>What is the value of x in the equation?</p>	<p>4. Simplify the following algebraic expression.</p> $8x + 17 - 3(9x - 6)$
<p>5. What is the value of x in the equation below?</p> $2(x - 7) \geq 25$	<p>6. Evaluate: $(-9)^3$</p>	<p>7. Look at the list of numbers below:</p> $33\%, \frac{1}{3}, -3 , \frac{2}{5}$ <p>List the numbers in order from least to greatest.</p>	<p>8. Look at the pattern below:</p> <p>-3, 15, -75, 375,</p> <p>If -3 is the third term, what's the first term based on this pattern?</p>
<p>9. Solve the proportion:</p> $\frac{9}{7} = \frac{x}{42}$	<p>10. Solve the equation for x:</p> $3x + 6 = 20$	<p>11. Solve the equation for x:</p> $7 - 6x = 30$	<p>12. Solve the equation for x:</p> $\frac{x}{3} - 12 = -15$
<p>13. Simplify to Unit Rate:</p> $\frac{24 \text{ meters}}{14 \text{ seconds}}$	<p>14. Simplify to Unit Rate:</p> $\frac{81 \text{ feet}}{4 \text{ minute}}$	<p>15. Give the decimal and the percent form of the fraction:</p> $\frac{5}{8}$	<p>16. Give the decimal and the percent form of the fraction:</p> $\frac{4}{22}$

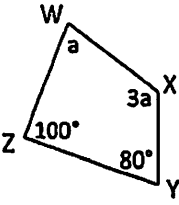
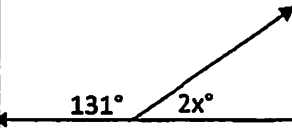
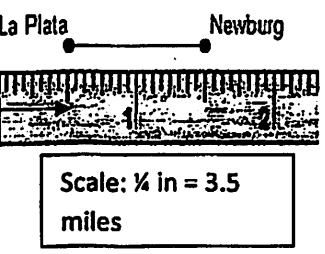
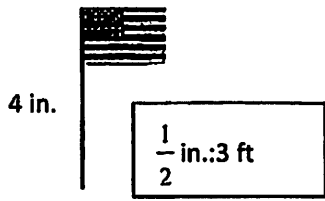
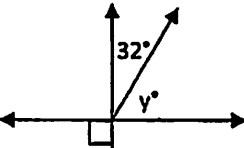
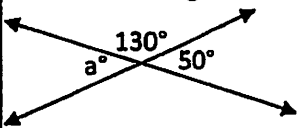
SMS Summer Math Packet

Complete week 8
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<p>1. Simplify: $1.5 \cdot \frac{4}{3} + \frac{10}{6}$</p>	<p>2. Simplify: $4 \cdot (\frac{10}{3} + \frac{7}{8})$</p>	<p>3. Simplify: $(0.75 + \frac{9}{4}) \div 0.5$</p>	<p>4. Simplify: $\frac{10}{6} - \frac{12}{8} \cdot 0.25$</p>
<p>5. Look at the inequality below. $-2x + 13.2 - 2x \geq 34.64$ What value for x makes this inequality true?</p>	<p>6. Mr. A. Didas purchased 22 trophies for a total of \$131.78. What is the cost per trophy?</p>	<p>7. Simplify: $-1736.98 + (-5)^2$</p>	<p>8. Give the decimal and the percent form of the fraction: $\frac{44}{37}$</p>
<p>9. Solve the proportion: $\frac{9}{7} = \frac{x}{45}$</p>	<p>10. Solve the equation for x: $2x + 91 = 15$</p>	<p>11. Solve the equation for x: $8 - 4x = -40$</p>	<p>12. Solve the equation for x: $\frac{5x}{6} - 17 = -10$</p>
<p>13. Simplify $\frac{-45x^9}{5x^4}$</p>	<p>14. Simplify $(6xy^7)(7x^2y^3)$</p>	<p>15. Simplify: $(4w^5z^6)^2$</p>	<p>16. Simplify $\frac{8w^6v^4}{2w^9v^2}$</p>

SMS Summer Math Packet

Complete week 9
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 Date: _____

<p>1. Look at quadrilateral WXYZ. What are the missing angles?</p> 	<p>2. Look at the diagram below.</p>  <p>Note: Figure not drawn to scale</p> <p>What is the value of x, in degrees?</p>	<p>3. The figure below represents the distance between La Plata and Newburg.</p>  <p>Scale: $\frac{1}{4}$ in = 3.5 miles</p> <p>What is the distance, in miles, between La Plata and Newburg?</p>	<p>4. What is the actual height of the flagpole?</p> 
<p>5. Mr. Nike purchased 29 trophies for a total of \$211.78. What is the cost per trophy?</p>	<p>6. Look at the expression below.</p> $20 \div 4 \times 4 - 4 + 2$ <p>What is the value of the expression?</p>	<p>7. Simplify:</p> $-1716.81 + (-5)^2$	<p>8. Look at the inequality below.</p> $-2x + 13.2 - 2x \geq 34.64$ <p>What value for x makes this inequality true?</p>
<p>9. Look at the diagram below.</p>  <p>Note: Figure not drawn to scale</p> <p>What is the value of y, in degrees?</p>	<p>10. Look at the expression below.</p> $(15.5 \div 3.1)(0.10)$ <p>What is the value of the expression?</p>	<p>11. Which of the following would be equivalent to: $(3^4)(3^2)$</p> <p>A. 3^{16} B. 3^8 C. 3^6 D. 3^2</p> <p>Simplify:</p> $-1716.81 + (-5)^2$	<p>12. Look at the diagram below.</p>  <p>Note: Figure not drawn to scale</p> <p>What is the value of a, in degrees?</p>
<p>13. Add in scientific notation.</p> $4.5 \times 10^4 + 3.2 \times 10^3$	<p>14. Subtract in scientific notation.</p> $4.3 \times 10^4 - 3.2 \times 10^3$	<p>15. Multiply in scientific notation.</p> $(4.6 \times 10^6)(3.21 \times 10^4)$	<p>16. Divide in scientific notation.</p> $\frac{4.86 \times 10^5}{2.43 \times 10^3}$

SMS Summer Math Packet

Complete week 10 (bonus)
 Parent Signature: _____
 Date: _____

<p>1. Simplify: $\frac{1}{12} - \frac{3}{5}$</p>	<p>2. Simplify: $\frac{5+5}{4} - 5 \cdot (5 \div 5)$</p>	<p>3. Simplify: $-12(2x - 4) + 6k$</p>	<p>4. Find the area of a trapezoid with base 1 = 12in, base 2 = 8in, and height = 4 in</p>
<p>5. <A and <B are complementary. If <A = $2x + 7$ and <B = 67, solve for x.</p>	<p>6. <C and <D are supplementary. If <C = 103 and <D = $3x - 7$, solve for x.</p>	<p>7. <A and <B are complementary. If <A measures 54 degrees what does <B measure?</p>	<p>8. Tarzan grabs 80% of the vines he means to. How many of 64 vines would he grab on purpose?</p>
<p>9. Eric makes 8 of his 10 free throws during practice. Using this data how many will he make at the game if he shoots 12 free throws?</p>	<p>10. What is the probability of rolling three 4s in a row using one die?</p>	<p>11. Solve the inequality for x: $\frac{-3}{2}x - 14 < 0$</p>	<p>12. Solve the equation for x: $-16 - 4x > -4$</p>
<p>13. Find f(5) when $f(x) = -2x - 3$</p>	<p>14. Find f(-2) when $f(x) = -4x + 5$</p>	<p>15. Find f(-9) when $f(x) = 3 - 2x$</p>	<p>16. Find f(3) when $f(x) = -3x - 5$</p>