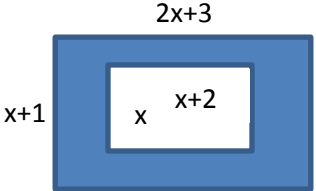


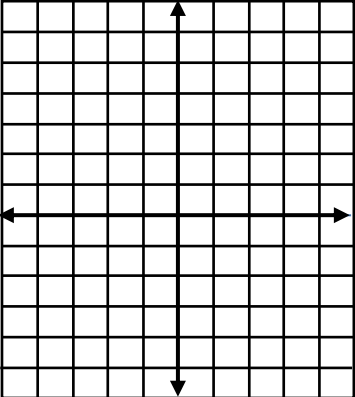


<p>1 Simplify completely:</p> $\frac{x^2 - 16}{2x - 6} \div \frac{x + 4}{x^2 + x - 12}$	<p>2. Simplify completely:</p> $\frac{8x^3 + 2x^2}{4x}$	<p>3. Simplify completely:</p> $\frac{7x + 7}{x^2} \cdot \frac{x^3}{x + 1}$
<p>4. There are 15 blue chips and 12 red chips in a box. If you choose one chip, what is the probability that you will draw a red chip?</p>	<p>5. Simplify:</p> $(3x^2 - x - 8) - (7x + 9x^2 - 7)$	<p>6. Simplify: $\frac{9x^2 y^{13}}{-3x^2 y^4}$</p>
<p>7. Multiply and simplify:</p> $(2a + 5)(3a - 1)$	<p>8. Factor <u>completely</u>:</p> $9x^2 - 27x + 18.$	<p>9. Factor <u>completely</u>:</p> $24y^2 - 4y - 8$

<p>10. Find the slope of the line containing (4,-2) and (7,9).</p>	<p>11. What is the area of the shaded region?</p> 	<p>12. Solve , then graph on a number line. $4c - (6c + 12) > 12 + 2(c - 8)$</p> 
<p>13. Solve and graph $-2 \leq 2x + 4$ and $x + 4 < -1$</p> 	<p>14. What are the x-intercepts of $x^2 - 6x + 5 = 0$</p>	<p>15. A student has scores of 12, 9, 8, and 11. What score must the student earn on the fifth test in order to have an average score of 11?</p>
<p>16. Graph and label the lines a) $y = -x + 2$ c) $x = 4$ b) $2x - 3y = 6$ d) $y = -3$</p> 	<p>17. Write a function for the situations described:</p> <p>a) It costs \$35 to rent a car and \$0.48 per mile</p> <p>b) There are 73 loaves of bread and the kids eat 7 loaves per day.</p> <p>c) A kite starts 4 feet off the ground and climbs 200 feet per minute</p>	<p>18. The height of a rectangle is three more than twice the base. The area is 119 sq in. What is the height?</p>