

1. Multiply: $(x - 5)(x + 3)$	6. Multiply: $(2x + 1)(x + 3)$
2. Multiply: $(a + 4)(a + 1)$	7. Multiply: $(5x - 1)(x + 4)$
3. Multiply: $(b - 3)(b - 6)$	8. Multiply: $(3x + 4)(x - 1)$
4. Multiply: $(p + 2)(p - 1)$	9. Multiply: $(7x - 1)(x - 5)$
5. Multiply: $(x - 10)(x + 4)$	10. Multiply: $(3x + 1)(2x - 7)$

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

<p>Express as a single fraction in simplest form:</p> <p>11. <math>\frac{x^2}{y} \cdot \frac{3x}{y}</math></p>	<p>Express as a single fraction in simplest form:</p> <p>14. <math>\frac{1}{y^3} \div \frac{4}{y^2}</math></p>	<p>11. _____</p>
<p>For which value of <math>x</math> is the fraction <math>\frac{2x+2}{x+1}</math> undefined?</p> <p>12. (1) -1                      (3) -2 (2) 2                            (4) 4</p>	<p>15. Solve for <math>y</math>: <math>-3(y+1) = 11 - 5(6 - y)</math></p>	<p>12. _____</p> <p>13. _____</p> <p>14. _____</p>
<p>13. Simplify: <math>3x^2 \cdot x^5 \cdot (-2x^3)</math></p>	<p>16. Simplify: <math>\frac{8a^3c^2}{-19a^3bc}</math></p>	<p>15. _____</p> <p>16. _____</p>
<p>17. (2 points) It takes Sammy three hours to finish painting two rooms. About how long will it take Sammy to finish painting seven rooms?</p>		<p>17. _____</p>
<p>18. (2 points) Three numbers are in the ratio 1 : 2 : 5. If the sum of the three numbers is 40, find the product of the three numbers.</p>		<p>18. _____</p>