

Name: _____

Date: _____

Homework sheet: Alg2H

<p>1. Page 7, questions</p> <p>1. Is $\frac{3}{17}$ rational or irrational?</p> <p>5. Is $\sqrt{36}$ rational or irrational?</p> <p>6. Is $\sqrt{19}$ rational or irrational?</p> <p>7. Is $-\sqrt{16}$ rational or irrational?</p> <p>17. $-\frac{2}{7} + \frac{3}{7} =$</p> <p>19. $-\frac{11}{12} + \left(-\frac{5}{12}\right) =$</p> <p>27. $-\frac{16}{5} - \left(-\frac{3}{5}\right) =$</p> <p>28. $-\frac{1}{2} - \left(-\frac{1}{12}\right) =$</p>	<p>2. Page 12, questions</p> <p>13. $-3\left(\frac{2}{-3}\right) =$</p> <p>21. $-\frac{9}{11} \cdot \left(-\frac{11}{9}\right) =$</p> <p>37. $\frac{3}{5} \div (-6) =$</p> <p>41. $\frac{6}{7} \div \left(-\frac{9}{14}\right) =$</p>
<p>3. Page 8, questions</p> <p>45. $\frac{1}{2} \cdot \frac{2}{3} \cdot \frac{3}{4}$</p> <p>46. $\frac{1}{2} + \frac{2}{3} + \frac{3}{4}$</p>	<p>4. Page 12, questions</p> <p>Find the reciprocal of:</p> <p>46. -8</p> <p>47. $\frac{ 7-19 }{-6}$</p>

5. Page 24, questions

12. Factor $3x + 3y - 3z$

14. Factor $4a + 8b - 4$

25. Collect like terms $x - 6x$

30. Collect like terms
 $12a + 3b - 5a + 6b$

31. Collect like terms $4x - 7 + 18x + 25$

6. Page 24, questions

53. Simplify
 $x - (5x + 9)$

57. Simplify
 $8x - 9 - (7 - 5x)$

59. Simplify
 $-9(y + 7) - 6(y - 3)$

61. Simplify
 $8y - 4(5y - 6)$