

### Expanding Equations: KEY

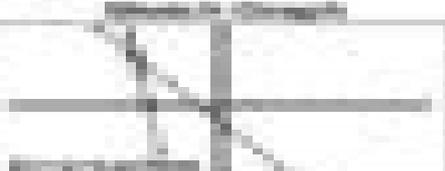
Equivalent sets of equations or inequalities can be solved using all the methods (using or graphing) discussed.

**Example:  $2x + 3 = 5x - 4$**

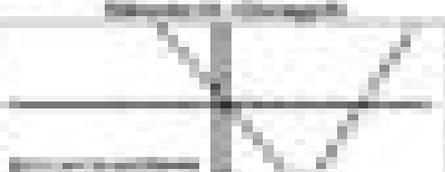
<p><b>Algebraic Method</b></p> <p>Subtract <math>2x</math> from both sides of the equation to get <math>3 = 3x - 4</math>.</p> <p>Add <math>4</math> to both sides of the equation to get <math>7 = 3x</math>.</p> <p>Divide both sides of the equation by <math>3</math> to get <math>x = \frac{7}{3}</math>.</p>	<p><b>Graphical Method</b></p> <p>Graph the equations <math>y = 2x + 3</math> and <math>y = 5x - 4</math> on the same coordinate plane.</p> <p>The intersection point is <math>(\frac{7}{3}, \frac{17}{3})</math>.</p>		<p><b>Number Line Method</b></p> <p>Graph the equation <math>2x + 3 = 5x - 4</math> on the number line.</p> <p>The solution is <math>x = \frac{7}{3}</math>.</p>
<p><b>Check:</b> Does the solution <math>x = \frac{7}{3}</math> satisfy both equations?</p> <p>Yes, <math>2(\frac{7}{3}) + 3 = 5(\frac{7}{3}) - 4</math>.</p>	<p><b>Check:</b> Does the solution <math>(\frac{7}{3}, \frac{17}{3})</math> satisfy both equations?</p> <p>Yes, <math>2(\frac{7}{3}) + 3 = 5(\frac{7}{3}) - 4</math>.</p>		<p><b>Check:</b> Does the solution <math>x = \frac{7}{3}</math> satisfy the equation?</p> <p>Yes, <math>2(\frac{7}{3}) + 3 = 5(\frac{7}{3}) - 4</math>.</p>

Solve the equations below using all methods.

1) Equation:  $2x + 3 = 5x - 4$

<p><b>Algebraic Method</b></p> <p><math>2x + 3 = 5x - 4</math></p> <p><math>3 = 3x - 4</math></p> <p><math>7 = 3x</math></p> <p><math>x = \frac{7}{3}</math></p>	<p><b>Graphical Method</b></p> 	<p><b>Number Line Method</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> </tr> <tr> <td style="text-align: center;">x</td> <td style="text-align: center;">x</td> <td style="text-align: center;">x</td> </tr> <tr> <td style="text-align: center;">2x + 3</td> <td style="text-align: center;">2x + 3</td> <td style="text-align: center;">2x + 3</td> </tr> <tr> <td style="text-align: center;">5x - 4</td> <td style="text-align: center;">5x - 4</td> <td style="text-align: center;">5x - 4</td> </tr> </table>	2	3	4	x	x	x	2x + 3	2x + 3	2x + 3	5x - 4	5x - 4	5x - 4	<p><b>Solution:</b></p> <p><math>x = \frac{7}{3}</math></p>
2	3	4													
x	x	x													
2x + 3	2x + 3	2x + 3													
5x - 4	5x - 4	5x - 4													

2) Equation:  $4x + 2 = 2x + 6$

<p><b>Algebraic Method</b></p> <p><math>4x + 2 = 2x + 6</math></p> <p><math>2x + 2 = 6</math></p> <p><math>2x = 4</math></p> <p><math>x = 2</math></p>	<p><b>Graphical Method</b></p> 	<p><b>Number Line Method</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> </tr> <tr> <td style="text-align: center;">x</td> <td style="text-align: center;">x</td> <td style="text-align: center;">x</td> </tr> <tr> <td style="text-align: center;">4x + 2</td> <td style="text-align: center;">4x + 2</td> <td style="text-align: center;">4x + 2</td> </tr> <tr> <td style="text-align: center;">2x + 6</td> <td style="text-align: center;">2x + 6</td> <td style="text-align: center;">2x + 6</td> </tr> </table>	2	3	4	x	x	x	4x + 2	4x + 2	4x + 2	2x + 6	2x + 6	2x + 6	<p><b>Solution:</b></p> <p><math>x = 2</math></p>
2	3	4													
x	x	x													
4x + 2	4x + 2	4x + 2													
2x + 6	2x + 6	2x + 6													

3) Equation:  $2(x + 3) = 5(x - 4)$

<p><b>Algebraic Method</b></p>	<p><b>Graphical Method</b></p>	<p><b>Number Line Method</b></p>	<p><b>Solution:</b></p>
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# Exploring Equations Worksheet Unit 03 Lesson 02

**R Sandford**



**Exploring Equations Worksheet Unit 03 Lesson 02:**

## Decoding **Exploring Equations Worksheet Unit 03 Lesson 02**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Exploring Equations Worksheet Unit 03 Lesson 02**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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