

READY-MADE

Who Killed  
Mr. X?

A P.I. R<sup>2</sup>



MINI-MYSTERY

Solving Multi-Step Equations

Resources

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# Instructions for Use

## *A Who's the Hero Mini-Mystery*

Thank you for purchasing this product. You have two options for how to use this fun activity with your class: either as a scavenger hunt or as an independent activity

### **Customizing your Activity**

On page 3, you will find the list of heroes, villains, locations and awards in the right column. Using most pdf readers, you may change any of the default values in the right column. The change will then be updated throughout the rest of the activity. **You only need to change the fields on page 3!** Your students will enjoy seeing their teachers' names listed as the heroes or your rival schools listed as the villains of their assignment!

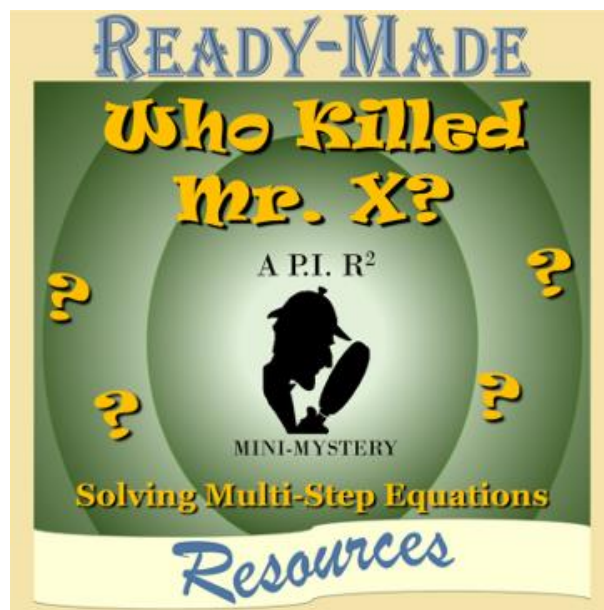
*If your PDF Reader program does not allow you to edit the document, please download Adobe Acrobat Reader.*

### **Scavenger Hunt**

Before class, print the set of 24 Activity Cards. Cut out the cards and hang them around your classroom.

Print one copy of page 3 for each student.

Students will calculate each solution, then look around the room to find their answer on the activity cards. When they find their answer, they should eliminate the suspect named on the card from their list. Each correct answer will eliminate one choice.



### **Independent Activity**

Print one copy of page 4 for each student.

Students will compute each solution, then look through the list of clues on the right side of the page to find their answer. When they find their answer, they will eliminate the possibility associated with their answer choice. Each correct answer will eliminate one choice.

### **Solving the Case**

When they have finished all 20 questions, students will be left with one hero, one villain and one location. These are the answers to the mystery of "Who Killed Mr. X?"

*If you have any questions or find any errors in this product, please contact me at [info@rmr4edu.com](mailto:info@rmr4edu.com) and give me a chance to make it right before leaving negative feedback.*



## A P.I. R<sup>2</sup> Mini-Mystery

Calculate each answer below, then use your solutions to eliminate the suspects and solve the mystery.

1. $-1 + 2x = 6x + 11$	2. $3 + 5x = 3x - 9$
3. $5 - 6x = 17 - 8x$	4. $x - 11 = 16 + 4x$
5. $-10 - 7x = -3x - 2$	6. $-13 - 4x = x + 7$
7. $x - 2 = 10 - 5x$	8. $3x - 1 = 4x - 11$
9. $-6x - 21 = -9x + 6$	10. $1 + 8x + 9 = -20 + 2x$
11. $x + 1 + 4x = 11 + 12x - 3$	12. $20 - 9x = x + 10x$
13. $-2x - 1 = -9 - x$	14. $7x - 5 = 10x - x - 15$
15. $-6x - 20 = 1 - 3x$	16. $x - 11 = 22 - 2x$
17. $9x - 4 = 8x + 8$	18. $-7 + 6x = x + 8$
19. $1 + 7x = 9 + 5x$	20. $1 - 12x = -20 - 9x$

**WHO?**

**WHAT?**

**WHERE?**

IT WAS (WHO)

WITH A (WHAT)

IN THE (WHERE)

## A P.I. R<sup>2</sup> Mini-Mystery

Calculate each answer below, then use your solutions to eliminate the suspects and solve the mystery.

1. $-1 + 2x = 6x + 11$	2. $3 + 5x = 3x - 9$
3. $5 - 6x = 17 - 8x$	4. $x - 11 = 16 + 4x$
5. $-10 - 7x = -3x - 2$	6. $-13 - 4x = x + 7$
7. $x - 2 = 10 - 5x$	8. $3x - 1 = 4x - 11$
9. $-6x - 21 = -9x + 6$	10. $1 + 8x + 9 = -20 + 2x$
11. $x + 1 + 4x = 11 + 12x - 3$	12. $20 - 9x = x + 10x$
13. $-2x - 1 = -9 - x$	14. $7x - 5 = 10x - x - 15$
15. $-6x - 20 = 1 - 3x$	16. $x - 11 = 22 - 2x$
17. $9x - 4 = 8x + 8$	18. $-7 + 6x = x + 8$
19. $1 + 7x = 9 + 5x$	20. $1 - 12x = -20 - 9x$

**WHO?**

10

-8

8

-6

-4

4

**WHAT?**

-5

11

5

-3

-11

9

**WHERE?**

3

-2

12

6

1

-12

2

-7

-1

7

-9

IT WAS (WHO)

WITH A (WHAT)

IN THE (WHERE)

## A P.I. R<sup>2</sup> Mini-Mystery

Calculate each answer below, then use your solutions to eliminate the suspects and solve the mystery.

1. $-1 + 2x = 6x + 11$ <b><math>x = -3</math></b>	2. $3 + 5x = 3x - 9$ <b><math>x = -6</math></b>	<div style="background-color: #d9ead3; padding: 2px;"><b>WHO?</b></div> <div style="border: 1px solid black; padding: 2px; text-align: center;">10</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">-8</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">8</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">-6</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">-4</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">4</div>	
3. $5 - 6x = 17 - 8x$ <b><math>x = 6</math></b>	4. $x - 11 = 16 + 4x$ <b><math>x = -9</math></b>		-5
5. $-10 - 7x = -3x - 2$ <b><math>x = -2</math></b>	6. $-13 - 4x = x + 7$ <b><math>x = -4</math></b>		11
7. $x - 2 = 10 - 5x$ <b><math>x = 2</math></b>	8. $3x - 1 = 4x - 11$ <b><math>x = 10</math></b>		5
9. $-6x - 21 = -9x + 6$ <b><math>x = 9</math></b>	10. $1 + 8x + 9 = -20 + 2x$ <b><math>x = -5</math></b>		-3
11. $x + 1 + 4x = 11 + 12x - 3$ <b><math>x = -1</math></b>	12. $20 - 9x = x + 10x$ <b><math>x = 1</math></b>		-11
13. $-2x - 1 = -9 - x$ <b><math>x = 8</math></b>	14. $7x - 5 = 10x - x - 15$ <b><math>x = 5</math></b>		9
15. $-6x - 20 = 1 - 3x$ <b><math>x = -7</math></b>	16. $x - 11 = 22 - 2x$ <b><math>x = 11</math></b>		3
17. $9x - 4 = 8x + 8$ <b><math>x = 12</math></b>	18. $-7 + 6x = x + 8$ <b><math>x = 3</math></b>		-2
19. $1 + 7x = 9 + 5x$ <b><math>x = 4</math></b>	20. $1 - 12x = -20 - 9x$ <b><math>x = 7</math></b>		12
		6	
		1	
		-12	
		2	
		-7	
		-1	
		7	
		-9	

IT WAS (WHO)

WITH A (WHAT)

IN THE (WHERE)

10

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-8

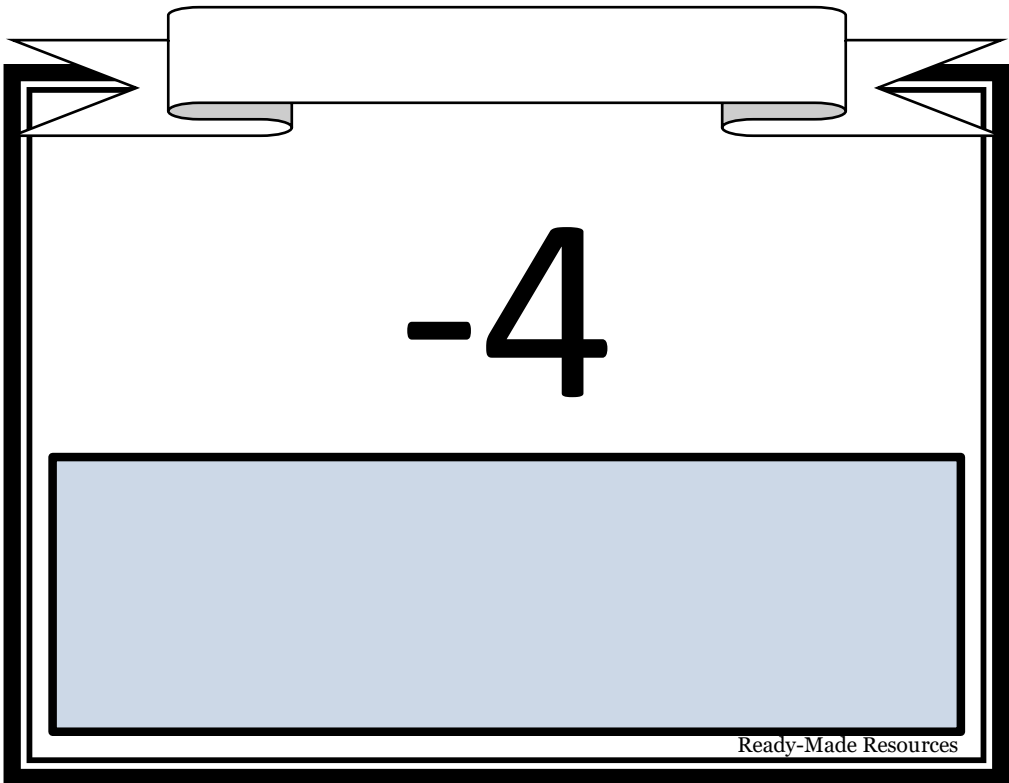
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Ready-Made Resources

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Ready-Made Resources



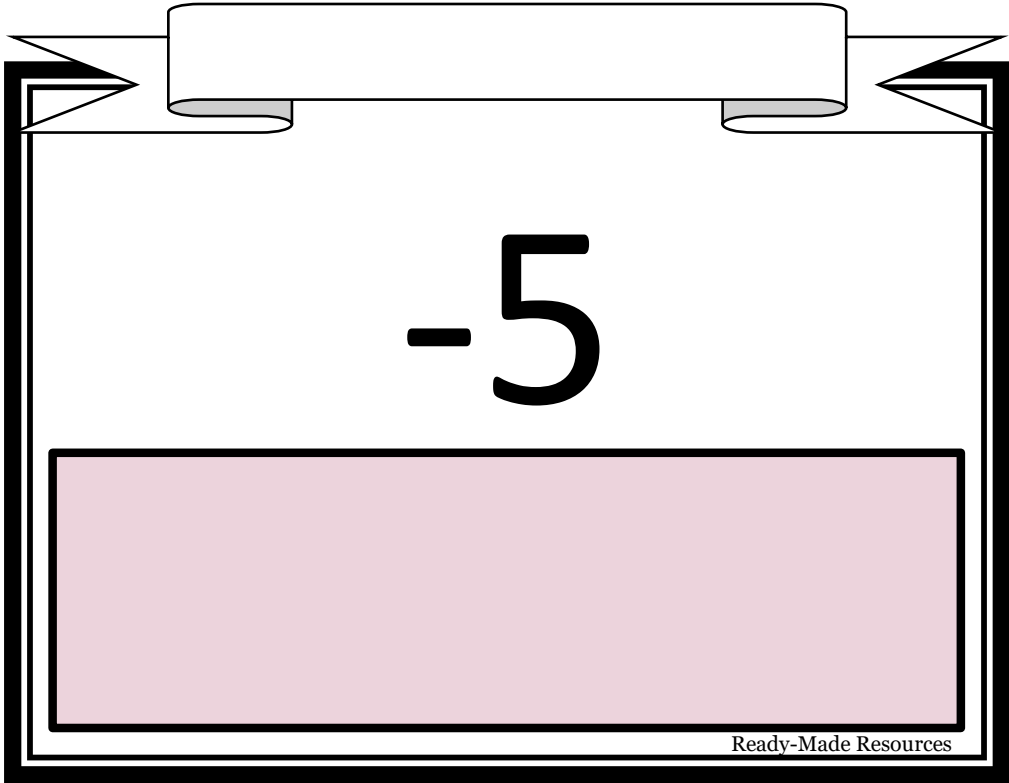
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**4**

Ready-Made Resources



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Ready-Made Resources



**11**

Ready-Made Resources

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Ready-Made Resources

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-11

Ready-Made Resources

9

Ready-Made Resources



3

Ready-Made Resources

-2

Ready-Made Resources

12

Ready-Made Resources

6

Ready-Made Resources

1

Ready-Made Resources

-12

Ready-Made Resources

2

Ready-Made Resources

-7

Ready-Made Resources

-1

Ready-Made Resources

7

Ready-Made Resources

-9

Ready-Made Resources

Activity Cards

Ready-Made Resources