



Unleashing Innovation Through STEM Education

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Lesson: Determining Solutions to Equations – Middle

Name:

Teacher:

Date:

1. Answer: Yes or No

Determine whether the (2, 6) is a solution to $39 = 2x + 5y$ and $-3x - 7y = -50$

Ans. _____

2. Answer: Yes or No

Determine whether the (-1, -4) is a solution to
 $-7a + 4b = -9$ and $6a = -10 - b$

Ans. _____

3. Answer: Yes or No

Determine whether the (-3, 9) is a solution to
 $d + 3c = 0$ and $-2c + 9d = 87$

Ans. _____

4. Answer: Yes or No

Determine whether the (11, -7) is a solution to
 $-3s - 9t = 7$ and $8t + 4s = 23$

Ans. _____

5. Answer: Yes or No

Check whether the (-5, 7) is a solution to
 $-5p + 7q = 74$ and $p - 5q = -40$

Ans. _____



6. Answer: Yes or No

Check whether the $(-5, 7)$ is a solution to

$$26 = 6u + 8v \text{ and } 2u - 4v = -38$$

Ans. _____

7. Answer: Yes or No

Check whether the $(-7, 8)$ is a solution to

$$-7b = -77 - 3a \text{ and } 5a + 2b + 19 = 0$$

Ans. _____

8. Answer: Yes or No

Check whether the $(3, -1)$ is a solution to

$$9d - 8c = -33 \text{ and } 6c - 3d = 21$$

Ans. _____

9. Answer: Yes or No

Check whether the $(5, 12)$ is a solution to

$$-8s + 5t = 20 \text{ and } 4t - 7s = 13$$

Ans. _____

10. Answer: Yes or No

Check whether the $(0, 6)$ is a solution to

$$-9 = p + 2q \text{ and } 2p - 8q = 54$$

Ans. _____

11. Answer: Yes or No

Check whether the $(2, -4)$ is a solution to

$$7u - 6v = 38 \text{ and } 16 = -4u + v$$

Ans. _____

12. Answer: Yes or No

Check whether the $(2, -4)$ is a solution to

$$3n = -22 + 5m \text{ and } -2m - 9n = 47$$

Ans. _____



b) No

b) yes

b) Yes

b) No

b) yes

b) yes



19.

Solve:

$$2(x - 3) = 10$$

20. Is (1,10) a solution to $y=7x+5$ $y=x+9$

a) no

b) yes

21.

Which ordered pair does NOT satisfy the equation $y = x + 10$?

Choose from the below words

(10,0)

(2,12)

(1,11)

(0,10)

22. What is the solution to this system of equation below:

$$y = x - 2 \text{ and } y = 2x$$

Ans. _____

23. Answer: Yes or No

Check whether the (0, 2) is a solution to

$$y = x - 2 \text{ and } y = 2x$$

Ans. _____



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24. Answer: Yes or No

Check whether the (1, 3) is a solution to

$$y = x - 2 \text{ and } y = 2x$$

Ans. _____

25. Answer: Yes or No

Check whether the (2, 4) is a solution to

$$y = x - 2 \text{ and } y = 2x$$

Ans. _____



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Answer Keys

- | | | |
|----------------------------------|-----------|------------|
| 1. No | 2. Yes | 3. Yes |
| 4. No | 5. Yes | 6. Yes |
| 7. Yes | 8. Yes | 9. Yes |
| 10. No | 11. No | 12. No |
| 13. b) No | 14. a) no | 15. b) Yes |
| 16. b) No | 17. a) no | 18. a) no |
| 19. 8 | 20. a) no | 21. |
| 22. -2 and -4, -2, -4, -2 AND -4 | 23. No | 24. No |
| 25. No | | |