

Name: \_\_\_\_\_

CLASS WORK

5.7 - 2x2 Systems Infinite, None, Integer Solutions - CW

#: \_\_\_\_\_

1. Solve the following system of equations for all the variables:

$$\begin{aligned} -5x + 9j &= 51 \\ -20x + 36j &= 204 \end{aligned}$$

2. Solve the following system of equations for all the variables:

$$\begin{aligned} -2j - 5n &= 50 \\ -10j - 25n &= 250 \end{aligned}$$

3. Solve the following system of equations for all the variables:

$$\begin{aligned} -a + 10i &= 43 \\ -4a + 40i &= 172 \end{aligned}$$

4. Solve the following system of equations for all the variables:

$$\begin{aligned} 3g - x &= -15 \\ 15g - 5x &= -29 \end{aligned}$$

5. Solve the following system of equations for all the variables:

$$\begin{aligned} -7w - 2f &= -42 \\ -21w - 6f &= -13 \end{aligned}$$

6. Solve the following system of equations for all the variables:

$$\begin{aligned} 9f - 4n &= 34 \\ 27f - 12n &= -3 \end{aligned}$$

7. Solve the following system of equations for all the variables:

$$\begin{aligned} 4t - 10s &= -78 \\ -10t - 2s &= 60 \end{aligned}$$

8. Solve the following system of equations for all the variables:

$$\begin{aligned} -7c + 4n &= -24 \\ -5c - n &= -21 \end{aligned}$$

9. Solve the following system of equations for all the variables:

$$\begin{aligned} 8p - 6a &= 78 \\ -2p + 6a &= -24 \end{aligned}$$

10. Solve the following system of equations for all the variables:

$$\begin{aligned} x + 7o &= -7 \\ 4x + 28o &= -28 \end{aligned}$$

11. Solve the following system of equations for all the variables:

$$\begin{aligned} -6c - 6r &= -30 \\ -2c - 7r &= -55 \end{aligned}$$

12. Solve the following system of equations for all the variables:

$$\begin{aligned} -5b - 6n &= 65 \\ -15b - 18n &= 195 \end{aligned}$$

13. Solve the following system of equations for all the variables:

$$\begin{aligned}a + 8k &= 24 \\6a - 8k &= 32\end{aligned}$$

14. Solve the following system of equations for all the variables:

$$\begin{aligned}5p - 3l &= -2 \\10p - 6l &= -4\end{aligned}$$

15. Solve the following system of equations for all the variables:

$$\begin{aligned}3n + 4v &= 37 \\15n + 20v &= 185\end{aligned}$$

16. Solve the following system of equations for all the variables:

$$\begin{aligned}-7r - 2b &= 1 \\-28r - 8b &= 4\end{aligned}$$

17. Solve the following system of equations for all the variables:

$$\begin{aligned}-4e - j &= -16 \\-20e - 5j &= -13\end{aligned}$$

18. Solve the following system of equations for all the variables:

$$\begin{aligned}5s + f &= -5 \\6s + 5f &= 32\end{aligned}$$

19. Solve the following system of equations for all the variables:

$$\begin{aligned}8w + 2g &= 70 \\-8w - 9g &= -91\end{aligned}$$

20. Solve the following system of equations for all the variables:

$$\begin{aligned}-5u + 4t &= -53 \\-20u + 16t &= -19\end{aligned}$$

21. Solve the following system of equations for all the variables:

$$\begin{aligned}-8m - s &= 85 \\4m + s &= -45\end{aligned}$$

22. Solve the following system of equations for all the variables:

$$\begin{aligned}6k + 3g &= -60 \\7k - 5g &= -70\end{aligned}$$

23. Solve the following system of equations for all the variables:

$$\begin{aligned}8b - 9o &= -37 \\32b - 36o &= -4\end{aligned}$$

24. Solve the following system of equations for all the variables:

$$\begin{aligned}-4f + 4n &= -56 \\-8f + 3n &= -87\end{aligned}$$

25. Solve the following system of equations for all the variables:

$$\begin{aligned} -8m + 5c &= 16 \\ -16m + 10c &= 32 \end{aligned}$$

26. Solve the following system of equations for all the variables:

$$\begin{aligned} -6h - m &= -39 \\ -30h - 5m &= -195 \end{aligned}$$

27. Solve the following system of equations for all the variables:

$$\begin{aligned} -5k - 6r &= 14 \\ -15k - 18r &= 42 \end{aligned}$$

28. Solve the following system of equations for all the variables:

$$\begin{aligned} -7t - 10r &= 140 \\ -28t - 40r &= 5 \end{aligned}$$

29. Solve the following system of equations for all the variables:

$$\begin{aligned} -6h - 4z &= -36 \\ h + 6z &= 6 \end{aligned}$$



Name: \_\_\_\_\_

CLASS WORK

5.7 - 2x2 Systems Infinite, None, Integer Solutions - CWAnswers

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1.  $x = -3$  and  $j = 4$
2.  $j = 0$  and  $n = -10$
3.  $a = 7$  and  $i = 5$
4.  $g = -8$  and  $x = -9$
5.  $w = 8$  and  $f = -7$
6.  $f = 6$  and  $n = 5$
7.  $t = -7$  and  $s = 5$
8.  $c = 4$  and  $n = 1$
9.  $p = 9$  and  $a = -1$
10.  $x = 7$  and  $o = -2$
11.  $c = -4$  and  $r = 9$
12.  $b = -7$  and  $n = -5$
13.  $a = 8$  and  $k = 2$
14.  $p = 5$  and  $l = 9$
15.  $n = -1$  and  $v = 10$
16.  $r = 1$  and  $b = -4$
17.  $e = 5$  and  $j = -4$
18.  $s = -3$  and  $f = 10$
19.  $w = 8$  and  $g = 3$
20.  $u = 9$  and  $t = -2$
21.  $m = -10$  and  $s = -5$
22.  $k = -10$  and  $g = 0$
23.  $b = 1$  and  $o = 5$
24.  $f = 9$  and  $n = -5$
25.  $m = 3$  and  $c = 8$
26.  $h = 5$  and  $m = 9$
27.  $k = -10$  and  $r = 6$
28.  $t = -10$  and  $r = -7$
29.  $h = 6$  and  $z = 0$