

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

CLASS WORK

5.2 - 2x2 Systems Medium - CW

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

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

$$\begin{aligned} -4s + 2d &= -24 \\ 2s + 3d &= -4 \end{aligned}$$

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

$$\begin{aligned} 5e + 8o &= 20 \\ 8e - o &= -37 \end{aligned}$$

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

$$\begin{aligned} 4k + 6w &= 24 \\ -6k + 3w &= 84 \end{aligned}$$

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

$$\begin{aligned} -2z + 6f &= -58 \\ 6z + 8f &= -60 \end{aligned}$$

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

$$\begin{aligned} 8l + 10m &= -12 \\ 6l - 5m &= -84 \end{aligned}$$

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

$$\begin{aligned} 6j - 2p &= 2 \\ 10j + 10p &= -130 \end{aligned}$$

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

$$\begin{aligned} 8n + 2l &= 34 \\ -6n + l &= -43 \end{aligned}$$

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

$$\begin{aligned} -2g + 6s &= 20 \\ 5g + 3s &= 4 \end{aligned}$$

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

$$\begin{aligned} -2q + 8j &= -48 \\ 3q - j &= 6 \end{aligned}$$

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

$$\begin{aligned} 6r - 8y &= 8 \\ 8r - y &= -28 \end{aligned}$$

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

$$\begin{aligned} -6v - 10h &= 90 \\ -7v - h &= 73 \end{aligned}$$

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

$$\begin{aligned} -6b - 8r &= -54 \\ 2b + 7r &= 18 \end{aligned}$$

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

$$\begin{aligned}u - 4x &= 31 \\ -7u - 7x &= -7\end{aligned}$$

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

$$\begin{aligned}-10c - 5x &= -80 \\ 2c - 8x &= 52\end{aligned}$$

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

$$\begin{aligned}9q - 2f &= 88 \\ -2q - 6f &= -26\end{aligned}$$

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

$$\begin{aligned}9n + i &= -37 \\ 7n + 10i &= -121\end{aligned}$$

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

$$\begin{aligned}6d - 10c &= -24 \\ d + 3c &= 24\end{aligned}$$

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

$$\begin{aligned}3n - 2s &= 13 \\ 7n - 6s &= 21\end{aligned}$$

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

$$\begin{aligned}-6k - 6o &= -60 \\ -10k - 2o &= -36\end{aligned}$$

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

$$\begin{aligned}-3v + 10m &= 102 \\ -2v - 5m &= -37\end{aligned}$$

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CLASS WORK

5.2 - 2x2 Systems Medium - CWAnswers

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

1.  $s = 4$  and  $d = -4$
2.  $e = -4$  and  $o = 5$
3.  $k = -9$  and  $w = 10$
4.  $z = 2$  and  $f = -9$
5.  $l = -9$  and  $m = 6$
6.  $j = -3$  and  $p = -10$
7.  $n = 6$  and  $l = -7$
8.  $g = -1$  and  $s = 3$
9.  $q = 0$  and  $j = -6$
10.  $r = -4$  and  $y = -4$
11.  $v = -10$  and  $h = -3$
12.  $b = 9$  and  $r = 0$
13.  $u = 7$  and  $x = -6$
14.  $c = 10$  and  $x = -4$
15.  $q = 10$  and  $f = 1$
16.  $n = -3$  and  $i = -10$
17.  $d = 6$  and  $c = 6$
18.  $n = 9$  and  $s = 7$
19.  $k = 2$  and  $o = 8$
20.  $v = -4$  and  $m = 9$