

Name: _____

CLASS WORK

5.6 - 2x2 Systems Infinite Solutions then Mixed - CW

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

$$\begin{aligned}9s + 3e &= 6 \\36s + 12e &= 24\end{aligned}$$

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

$$\begin{aligned}-7d - 9j &= 10 \\-14d - 18j &= 20\end{aligned}$$

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

$$\begin{aligned}-7d + 9m &= 52 \\-35d + 45m &= 260\end{aligned}$$

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

$$\begin{aligned}7a + 7u &= -21 \\28a + 28u &= -84\end{aligned}$$

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

$$\begin{aligned}-2r + 9a &= 20 \\-10r + 45a &= 100\end{aligned}$$

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

$$\begin{aligned}5q + z &= -27 \\10q + 2z &= -54\end{aligned}$$

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

$$\begin{aligned}2b - 5e &= -44 \\-b + 5e &= 37\end{aligned}$$

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

$$\begin{aligned}4r - 8i &= 4 \\3r + 5i &= 25\end{aligned}$$

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

$$\begin{aligned}10x + 10a &= 110 \\20x + 20a &= 220\end{aligned}$$

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

$$\begin{aligned}-7a + 10q &= -170 \\-14a + 20q &= 1\end{aligned}$$

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

$$\begin{aligned}9f - 5u &= -9 \\3f + 5u &= 57\end{aligned}$$

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

$$\begin{aligned}-3v - 9t &= 12 \\-15v - 45t &= 60\end{aligned}$$

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

$$\begin{aligned} -3e + w &= 18 \\ -6e + 2w &= -14 \end{aligned}$$

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

$$\begin{aligned} 6v + 3j &= -45 \\ 24v + 12j &= -180 \end{aligned}$$

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

$$\begin{aligned} -x + 7g &= -63 \\ -5x + 35g &= -29 \end{aligned}$$

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

$$\begin{aligned} -9c - 8s &= 93 \\ -36c - 32s &= 372 \end{aligned}$$

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

$$\begin{aligned} -6u - q &= 20 \\ -24u - 4q &= -27 \end{aligned}$$

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

$$\begin{aligned} -4v - 2d &= 48 \\ 7v - 5d &= -50 \end{aligned}$$

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

$$\begin{aligned} -u + 7g &= 42 \\ -5u + 35g &= -17 \end{aligned}$$

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

$$\begin{aligned} 2v - 9d &= 35 \\ 3v + 10d &= -18 \end{aligned}$$

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5.6 - 2x2 Systems Infinite Solutions then Mixed - CWAnswers

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