Task card 1 Systems of Inequalities Word Probl...

Leo wants to earn at least $125.00 this month. Leo can choose hours babysitting, b, at $13.00 an hour, and hours mowing lawns, m, at $8.50 an hour. Leo can work at most 11 hours. Leo wrote the inequalities $13.00b + 8.50m \geq 125$ and $b + m \leq 11$. If Leo works 9 hours babysitting and 1 hour mowing lawns, will this satisfy both constraints? Answer yes or no.

Task card 2 Systems of Inequalities Word Probl...

Lily has at most $19.00 to spend on school supplies. Lily can choose notebooks, n, at $2.66 each, and pens, p, at $1.09 each. Lily needs at least 10 items. Lily wrote the inequalities $2.66n + 1.09p \leq 19$ and $n + p \geq 10$. If Lily buys 8 notebooks and 6 pens, will this satisfy both constraints? Answer yes or no.

Task card 3 Systems of Inequalities Word Probl...

Omar has $10.00 to spend on snacks for a class trip. Omar can choose apples, a, at $0.79 each, and granola bars, g, at $0.93 each. Omar needs at least 10 snacks. Omar wrote the inequalities $0.79a + 0.93g \leq 10$ and $a + g \geq 10$. If Omar buys 9 apples and 3 granola bars, will this satisfy both constraints? Answer yes or no.

Task card 4 Systems of Inequalities Word Probl...

It costs Leo at least $5.00 to mail a package. Leo can choose postcard stamps, p, at $0.37 each, and first-class stamps, f, at $0.46 each. Leo can fit at most 14 stamps on the package. Leo wrote the inequalities $0.37p + 0.46f \geq 5$ and $p + f \leq 14$. If Leo uses 1 postcard stamp and 10 first-class stamps, will this satisfy both constraints? Answer yes or no.

Task card 5 Systems of Inequalities Word Probl...

Noah has at most $18.00 to spend on school supplies. Noah can choose notebooks, n, at $1.67 each, and pens, p, at $1.17 each. Noah needs at least 13 items. Noah wrote the inequalities $1.67n + 1.17p \leq 18$ and $n + p \geq 13$. If Noah buys 9 notebooks and 4 pens, will this satisfy both constraints? Answer yes or no.

Task card 6 Systems of Inequalities Word Probl...

Sofia has at most $13.00 to spend on school supplies. Sofia can choose notebooks, n, at $1.76 each, and pens, p, at $1.18 each. Sofia needs at least 10 items. Sofia wrote the inequalities $1.76n + 1.18p \leq 13$ and $n + p \geq 10$. If Sofia buys 2 notebooks and 8 pens, will this satisfy both constraints? Answer yes or no.

Task card 7 Systems of Inequalities Word Probl...

Sofia can spend at most $15.00 on treats for a bake sale. Sofia can choose muffins, m, at $2.06 each, and cookies, c, at $0.70 each. Sofia needs at least 12 treats. Sofia wrote the inequalities $2.06m + 0.70c \leq 15$ and $m + c \geq 12$. If Sofia buys 6 muffins and 2 cookies, will this satisfy both constraints? Answer yes or no.

Task card 8 Systems of Inequalities Word Probl...

It costs Emma at least $2.00 to mail a package. Emma can choose postcard stamps, p, at $0.26 each, and first-class stamps, f, at $0.52 each. Emma can fit at most 9 stamps on the package. Emma wrote the inequalities $0.26p + 0.52f \geq 2$ and $p + f \leq 9$. If Emma uses 5 postcard stamps and 4 first-class stamps, will this satisfy both constraints? Answer yes or no.

Task card 9 Systems of Inequalities Word Probl...

It costs Arman at least $5.00 to mail a package. Arman can choose postcard stamps, p, at $0.39 each, and first-class stamps, f, at $0.55 each. Arman can fit at most 12 stamps on the package. Arman wrote the inequalities $0.39p + 0.55f \geq 5$ and $p + f \leq 12$. If Arman uses 6 postcard stamps and 10 first-class stamps, will this satisfy both constraints? Answer yes or no.

Task card 10 Systems of Inequalities Word Probl...

Sofia wants to earn at least $105.00 this month. Sofia can choose hours babysitting, b, at $11.25 an hour, and hours mowing lawns, m, at $8.75 an hour. Sofia can work at most 11 hours. Sofia wrote the inequalities $11.25b + 8.75m \geq 105$ and $b + m \leq 11$. If Sofia works 1 hour babysitting and 12 hours mowing lawns, will this satisfy both constraints? Answer yes or no.

Task card 11 Systems of Inequalities Word Probl...

Lily can spend at most $27.00 on treats for a bake sale. Lily can choose muffins, m, at $2.37 each, and cookies, c, at $0.80 each. Lily needs at least 13 treats. Lily wrote the inequalities $2.37m + 0.80c \leq 27$ and $m + c \geq 13$. If Lily buys 7 muffins and 8 cookies, will this satisfy both constraints? Answer yes or no.

Task card 12 Systems of Inequalities Word Probl...

It costs Noah at least $6.00 to mail a package. Noah can choose postcard stamps, p, at $0.40 each, and first-class stamps, f, at $0.64 each. Noah can fit at most 11 stamps on the package. Noah wrote the inequalities $0.40p + 0.64f \geq 6$ and $p + f \leq 11$. If Noah uses 2 postcard stamps and 5 first-class stamps, will this satisfy both constraints? Answer yes or no.

Task card 13 Systems of Inequalities Word Probl...

Davit can spend at most $18.00 on treats for a bake sale. Davit can choose muffins, m, at $1.94 each, and cookies, c, at $1.23 each. Davit needs at least 12 treats. Davit wrote the inequalities $1.94m + 1.23c \leq 18$ and $m + c \geq 12$. If Davit buys 3 muffins and 9 cookies, will this satisfy both constraints? Answer yes or no.

Task card 14 Systems of Inequalities Word Probl...

Omar can spend at most $35.00 on treats for a bake sale. Omar can choose muffins, m, at $2.52 each, and cookies, c, at $0.91 each. Omar needs at least 18 treats. Omar wrote the inequalities $2.52m + 0.91c \leq 35$ and $m + c \geq 18$. If Omar buys 3 muffins and 16 cookies, will this satisfy both constraints? Answer yes or no.

Task card 15 Systems of Inequalities Word Probl...

It costs Noah at least $3.00 to mail a package. Noah can choose postcard stamps, p, at $0.40 each, and first-class stamps, f, at $0.61 each. Noah can fit at most 9 stamps on the package. Noah wrote the inequalities $0.40p + 0.61f \geq 3$ and $p + f \leq 9$. If Noah uses 1 postcard stamp and 10 first-class stamps, will this satisfy both constraints? Answer yes or no.

Task card 16 Systems of Inequalities Word Probl...

Noah wants to earn at least $126.00 this month. Noah can choose hours babysitting, b, at $9.75 an hour, and hours mowing lawns, m, at $8.25 an hour. Noah can work at most 15 hours. Noah wrote the inequalities $9.75b + 8.25m \geq 126$ and $b + m \leq 15$. If Noah works 9 hours babysitting and 5 hours mowing lawns, will this satisfy both constraints? Answer yes or no.

Task card 17 Systems of Inequalities Word Probl...

It costs Sofia at least $3.00 to mail a package. Sofia can choose postcard stamps, p, at $0.31 each, and first-class stamps, f, at $0.45 each. Sofia can fit at most 10 stamps on the package. Sofia wrote the inequalities $0.31p + 0.45f \geq 3$ and $p + f \leq 10$. If Sofia uses 1 postcard stamp and 11 first-class stamps, will this satisfy both constraints? Answer yes or no.

Task card 18 Systems of Inequalities Word Probl...

Zara has $8.00 to spend on snacks for a class trip. Zara can choose apples, a, at $0.43 each, and granola bars, g, at $1.43 each. Zara needs at least 10 snacks. Zara wrote the inequalities $0.43a + 1.43g \leq 8$ and $a + g \geq 10$. If Zara buys 10 apples and 2 granola bars, will this satisfy both constraints? Answer yes or no.

Task card 19 Systems of Inequalities Word Probl...

Leo can spend at most $15.00 on treats for a bake sale. Leo can choose muffins, m, at $1.96 each, and cookies, c, at $0.99 each. Leo needs at least 10 treats. Leo wrote the inequalities $1.96m + 0.99c \leq 15$ and $m + c \geq 10$. If Leo buys 4 muffins and 5 cookies, will this satisfy both constraints? Answer yes or no.

Task card 20 Systems of Inequalities Word Probl...

Sofia can spend at most $22.00 on treats for a bake sale. Sofia can choose muffins, m, at $2.44 each, and cookies, c, at $0.75 each. Sofia needs at least 10 treats. Sofia wrote the inequalities $2.44m + 0.75c \leq 22$ and $m + c \geq 10$. If Sofia buys 1 muffin and 12 cookies, will this satisfy both constraints? Answer yes or no.

Task card 21 Systems of Inequalities Word Probl...

Noah has at most $7.00 to spend on school supplies. Noah can choose notebooks, n, at $1.83 each, and pens, p, at $0.62 each. Noah needs at least 8 items. Noah wrote the inequalities $1.83n + 0.62p \leq 7$ and $n + p \geq 8$. If Noah buys 1 notebook and 7 pens, will this satisfy both constraints? Answer yes or no.

Task card 22 Systems of Inequalities Word Probl...

Emma has at most $12.00 to spend on school supplies. Emma can choose notebooks, n, at $2.50 each, and pens, p, at $0.71 each. Emma needs at least 9 items. Emma wrote the inequalities $2.50n + 0.71p \leq 12$ and $n + p \geq 9$. If Emma buys 2 notebooks and 7 pens, will this satisfy both constraints? Answer yes or no.

Task card 23 Systems of Inequalities Word Probl...

Emma can spend at most $25.00 on treats for a bake sale. Emma can choose muffins, m, at $2.17 each, and cookies, c, at $0.54 each. Emma needs at least 20 treats. Emma wrote the inequalities $2.17m + 0.54c \leq 25$ and $m + c \geq 20$. If Emma buys 10 muffins and 7 cookies, will this satisfy both constraints? Answer yes or no.

Task card 24 Systems of Inequalities Word Probl...

Leo can spend at most $26.00 on treats for a bake sale. Leo can choose muffins, m, at $1.88 each, and cookies, c, at $1.11 each. Leo needs at least 16 treats. Leo wrote the inequalities $1.88m + 1.11c \leq 26$ and $m + c \geq 16$. If Leo buys 5 muffins and 11 cookies, will this satisfy both constraints? Answer yes or no.

Systems of Inequalities Word Problems: Does It Meet Both Constraints? Task Cards

Recording sheet · Grade 9 · Answer yes or no. Substitute the numbers into both inequalities; the choice works only if both are true.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Systems of Inequalities Word Problems: Does It Meet Both Constraints? Task Cards: Answer Key

Grade 9 · Medium

The answers online

1. yes	**2.** no	**3.** yes
4. no	**5.** no	**6.** yes
7. no	**8.** yes	**9.** no
10. no	**11.** yes	**12.** no
13. yes	**14.** yes	**15.** no
16. yes	**17.** no	**18.** yes
19. no	**20.** yes	**21.** yes
22. yes	**23.** no	**24.** yes