Task card 1 Systems of Inequalities Word Probl...

It costs Maya at least $4.00 to mail a package. Maya can choose postcard stamps, p, at $0.25 each, and first-class stamps, f, at $0.50 each. Maya can fit at most 9 stamps on the package. Maya wrote the inequalities $0.25p + 0.50f \geq 4$ and $p + f \leq 9$. If Maya uses 1 postcard stamp and 8 first-class stamps, will this satisfy both constraints? Answer yes or no.

Task card 2 Systems of Inequalities Word Probl...

Zara has $9.00 to spend on snacks for a class trip. Zara can choose apples, a, at $0.50 each, and granola bars, g, at $1.25 each. Zara needs at least 14 snacks. Zara wrote the inequalities $0.50a + 1.25g \leq 9$ and $a + g \geq 14$. If Zara buys 13 apples and 1 granola bar, will this satisfy both constraints? Answer yes or no.

Task card 3 Systems of Inequalities Word Probl...

Omar wants to earn at least $156.00 this month. Omar can choose hours babysitting, b, at $15.00 an hour, and hours mowing lawns, m, at $10.75 an hour. Omar can work at most 11 hours. Omar wrote the inequalities $15.00b + 10.75m \geq 156$ and $b + m \leq 11$. If Omar works 9 hours babysitting and 6 hours mowing lawns, will this satisfy both constraints? Answer yes or no.

Task card 4 Systems of Inequalities Word Probl...

Leo has $15.00 to spend on snacks for a class trip. Leo can choose apples, a, at $0.75 each, and granola bars, g, at $1.00 each. Leo needs at least 16 snacks. Leo wrote the inequalities $0.75a + 1.00g \leq 15$ and $a + g \geq 16$. If Leo buys 4 apples and 12 granola bars, will this satisfy both constraints? Answer yes or no.

Task card 5 Systems of Inequalities Word Probl...

Lukas can spend at most $35.00 on treats for a bake sale. Lukas can choose muffins, m, at $2.50 each, and cookies, c, at $0.75 each. Lukas needs at least 20 treats. Lukas wrote the inequalities $2.50m + 0.75c \leq 35$ and $m + c \geq 20$. If Lukas buys 15 muffins and 9 cookies, will this satisfy both constraints? Answer yes or no.

Task card 6 Systems of Inequalities Word Probl...

It costs Lukas at least $4.00 to mail a package. Lukas can choose postcard stamps, p, at $0.25 each, and first-class stamps, f, at $0.50 each. Lukas can fit at most 11 stamps on the package. Lukas wrote the inequalities $0.25p + 0.50f \geq 4$ and $p + f \leq 11$. If Lukas uses 5 postcard stamps and 6 first-class stamps, will this satisfy both constraints? Answer yes or no.

Task card 7 Systems of Inequalities Word Probl...

Maya can spend at most $28.00 on treats for a bake sale. Maya can choose muffins, m, at $2.75 each, and cookies, c, at $1.00 each. Maya needs at least 11 treats. Maya wrote the inequalities $2.75m + 1.00c \leq 28$ and $m + c \geq 11$. If Maya buys 5 muffins and 3 cookies, will this satisfy both constraints? Answer yes or no.

Task card 8 Systems of Inequalities Word Probl...

Sofia can spend at most $31.00 on treats for a bake sale. Sofia can choose muffins, m, at $2.75 each, and cookies, c, at $0.75 each. Sofia needs at least 12 treats. Sofia wrote the inequalities $2.75m + 0.75c \leq 31$ and $m + c \geq 12$. If Sofia buys 11 muffins and 1 cookie, will this satisfy both constraints? Answer yes or no.

Task card 9 Systems of Inequalities Word Probl...

Maya can spend at most $15.00 on treats for a bake sale. Maya can choose muffins, m, at $3.00 each, and cookies, c, at $0.75 each. Maya needs at least 10 treats. Maya wrote the inequalities $3.00m + 0.75c \leq 15$ and $m + c \geq 10$. If Maya buys 2 muffins and 6 cookies, will this satisfy both constraints? Answer yes or no.

Task card 10 Systems of Inequalities Word Probl...

Davit has $10.00 to spend on snacks for a class trip. Davit can choose apples, a, at $0.50 each, and granola bars, g, at $1.50 each. Davit needs at least 12 snacks. Davit wrote the inequalities $0.50a + 1.50g \leq 10$ and $a + g \geq 12$. If Davit buys 11 apples and 1 granola bar, will this satisfy both constraints? Answer yes or no.

Task card 11 Systems of Inequalities Word Probl...

It costs Lily at least $4.00 to mail a package. Lily can choose postcard stamps, p, at $0.25 each, and first-class stamps, f, at $0.50 each. Lily can fit at most 10 stamps on the package. Lily wrote the inequalities $0.25p + 0.50f \geq 4$ and $p + f \leq 10$. If Lily uses 4 postcard stamps and 6 first-class stamps, will this satisfy both constraints? Answer yes or no.

Task card 12 Systems of Inequalities Word Probl...

Arman wants to earn at least $105.00 this month. Arman can choose hours babysitting, b, at $12.50 an hour, and hours mowing lawns, m, at $11.25 an hour. Arman can work at most 10 hours. Arman wrote the inequalities $12.50b + 11.25m \geq 105$ and $b + m \leq 10$. If Arman works 6 hours babysitting and 6 hours mowing lawns, will this satisfy both constraints? Answer yes or no.

Task card 13 Systems of Inequalities Word Probl...

Leo can spend at most $14.00 on treats for a bake sale. Leo can choose muffins, m, at $1.75 each, and cookies, c, at $0.50 each. Leo needs at least 17 treats. Leo wrote the inequalities $1.75m + 0.50c \leq 14$ and $m + c \geq 17$. If Leo buys 4 muffins and 13 cookies, will this satisfy both constraints? Answer yes or no.

Task card 14 Systems of Inequalities Word Probl...

Lily can spend at most $27.00 on treats for a bake sale. Lily can choose muffins, m, at $3.00 each, and cookies, c, at $0.75 each. Lily needs at least 19 treats. Lily wrote the inequalities $3.00m + 0.75c \leq 27$ and $m + c \geq 19$. If Lily buys 1 muffin and 21 cookies, will this satisfy both constraints? Answer yes or no.

Task card 15 Systems of Inequalities Word Probl...

Noah wants to earn at least $88.00 this month. Noah can choose hours babysitting, b, at $14.50 an hour, and hours mowing lawns, m, at $9.00 an hour. Noah can work at most 9 hours. Noah wrote the inequalities $14.50b + 9.00m \geq 88$ and $b + m \leq 9$. If Noah works 4 hours babysitting and 5 hours mowing lawns, will this satisfy both constraints? Answer yes or no.

Task card 16 Systems of Inequalities Word Probl...

Ani has $12.00 to spend on snacks for a class trip. Ani can choose apples, a, at $0.75 each, and granola bars, g, at $1.25 each. Ani needs at least 13 snacks. Ani wrote the inequalities $0.75a + 1.25g \leq 12$ and $a + g \geq 13$. If Ani buys 13 apples and 2 granola bars, will this satisfy both constraints? Answer yes or no.

Task card 17 Systems of Inequalities Word Probl...

Davit has at most $29.00 to spend on school supplies. Davit can choose notebooks, n, at $2.75 each, and pens, p, at $1.00 each. Davit needs at least 12 items. Davit wrote the inequalities $2.75n + 1.00p \leq 29$ and $n + p \geq 12$. If Davit buys 6 notebooks and 8 pens, will this satisfy both constraints? Answer yes or no.

Task card 18 Systems of Inequalities Word Probl...

Lily has at most $19.00 to spend on school supplies. Lily can choose notebooks, n, at $1.50 each, and pens, p, at $1.00 each. Lily needs at least 12 items. Lily wrote the inequalities $1.50n + 1.00p \leq 19$ and $n + p \geq 12$. If Lily buys 6 notebooks and 4 pens, will this satisfy both constraints? Answer yes or no.

Task card 19 Systems of Inequalities Word Probl...

Davit has $12.00 to spend on snacks for a class trip. Davit can choose apples, a, at $0.50 each, and granola bars, g, at $1.25 each. Davit needs at least 12 snacks. Davit wrote the inequalities $0.50a + 1.25g \leq 12$ and $a + g \geq 12$. If Davit buys 1 apple and 12 granola bars, will this satisfy both constraints? Answer yes or no.

Task card 20 Systems of Inequalities Word Probl...

It costs Arman at least $2.00 to mail a package. Arman can choose postcard stamps, p, at $0.25 each, and first-class stamps, f, at $0.50 each. Arman can fit at most 8 stamps on the package. Arman wrote the inequalities $0.25p + 0.50f \geq 2$ and $p + f \leq 8$. If Arman uses 3 postcard stamps and 5 first-class stamps, will this satisfy both constraints? Answer yes or no.

Task card 21 Systems of Inequalities Word Probl...

Lukas has at most $17.00 to spend on school supplies. Lukas can choose notebooks, n, at $2.25 each, and pens, p, at $1.00 each. Lukas needs at least 8 items. Lukas wrote the inequalities $2.25n + 1.00p \leq 17$ and $n + p \geq 8$. If Lukas buys 1 notebook and 5 pens, will this satisfy both constraints? Answer yes or no.

Task card 22 Systems of Inequalities Word Probl...

It costs Zara at least $3.00 to mail a package. Zara can choose postcard stamps, p, at $0.25 each, and first-class stamps, f, at $0.50 each. Zara can fit at most 12 stamps on the package. Zara wrote the inequalities $0.25p + 0.50f \geq 3$ and $p + f \leq 12$. If Zara uses 11 postcard stamps and 1 first-class stamp, will this satisfy both constraints? Answer yes or no.

Task card 23 Systems of Inequalities Word Probl...

Maya wants to earn at least $110.00 this month. Maya can choose hours babysitting, b, at $12.50 an hour, and hours mowing lawns, m, at $9.50 an hour. Maya can work at most 11 hours. Maya wrote the inequalities $12.50b + 9.50m \geq 110$ and $b + m \leq 11$. If Maya works 9 hours babysitting and 2 hours mowing lawns, will this satisfy both constraints? Answer yes or no.

Task card 24 Systems of Inequalities Word Probl...

Arman has $15.00 to spend on snacks for a class trip. Arman can choose apples, a, at $0.50 each, and granola bars, g, at $1.00 each. Arman needs at least 15 snacks. Arman wrote the inequalities $0.50a + 1.00g \leq 15$ and $a + g \geq 15$. If Arman buys 3 apples and 11 granola bars, 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 · Easy

The answers online

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