Task card 1 Systems of Inequalities Word Probl...

Ani has at most $23.00 to spend on school supplies. Ani can choose notebooks, n, at $2.71 each, and pens, p, at $1.17 each. Ani needs at least 14 items. Ani wrote the inequalities 2.71n + 1.17p ≤ 23 and n + p ≥ 14. If Ani buys 3 notebooks and 11 pens, will this satisfy both constraints? Answer yes or no.

Task card 2 Systems of Inequalities Word Probl...

Arman has at most $11.00 to spend on school supplies. Arman can choose notebooks, n, at $2.55 each, and pens, p, at $1.05 each. Arman needs at least 9 items. Arman wrote the inequalities 2.55n + 1.05p ≤ 11 and n + p ≥ 9. If Arman buys 1 notebook and 8 pens, will this satisfy both constraints? Answer yes or no.

Task card 3 Systems of Inequalities Word Probl...

Sofia has at most $14.00 to spend on school supplies. Sofia can choose notebooks, n, at $2.26 each, and pens, p, at $0.63 each. Sofia needs at least 13 items. Sofia wrote the inequalities 2.26n + 0.63p ≤ 14 and n + p ≥ 13. If Sofia buys 8 notebooks and 5 pens, will this satisfy both constraints? Answer yes or no.

Task card 4 Systems of Inequalities Word Probl...

Sofia has at most $19.00 to spend on school supplies. Sofia can choose notebooks, n, at $2.27 each, and pens, p, at $0.76 each. Sofia needs at least 11 items. Sofia wrote the inequalities 2.27n + 0.76p ≤ 19 and n + p ≥ 11. If Sofia buys 5 notebooks and 8 pens, will this satisfy both constraints? Answer yes or no.

Task card 5 Systems of Inequalities Word Probl...

Emma has at most $14.00 to spend on school supplies. Emma can choose notebooks, n, at $2.30 each, and pens, p, at $1.16 each. Emma needs at least 8 items. Emma wrote the inequalities 2.30n + 1.16p ≤ 14 and n + p ≥ 8. If Emma buys 4 notebooks and 2 pens, will this satisfy both constraints? Answer yes or no.

Task card 6 Systems of Inequalities Word Probl...

Maya has $15.00 to spend on snacks for a class trip. Maya can choose apples, a, at $0.77 each, and granola bars, g, at $1.17 each. Maya needs at least 17 snacks. Maya wrote the inequalities 0.77a + 1.17g ≤ 15 and a + g ≥ 17. If Maya buys 13 apples and 4 granola bars, will this satisfy both constraints? Answer yes or no.

Task card 7 Systems of Inequalities Word Probl...

Ani can spend at most $17.00 on treats for a bake sale. Ani can choose muffins, m, at $2.05 each, and cookies, c, at $0.66 each. Ani needs at least 16 treats. Ani wrote the inequalities $2.05m + 0.66c \leq 17$ and $m + c \geq 16$. If Ani buys 7 muffins and 10 cookies, will this satisfy both constraints? Answer yes or no.

Task card 8 Systems of Inequalities Word Probl...

Lily can spend at most $18.00 on treats for a bake sale. Lily can choose muffins, m, at $1.75 each, and cookies, c, at $0.79 each. Lily needs at least 11 treats. Lily wrote the inequalities $1.75m + 0.79c \leq 18$ and $m + c \geq 11$. If Lily buys 1 muffin and 12 cookies, will this satisfy both constraints? Answer yes or no.

Task card 9 Systems of Inequalities Word Probl...

Noah has at most $15.00 to spend on school supplies. Noah can choose notebooks, n, at $1.77 each, and pens, p, at $0.63 each. Noah needs at least 8 items. Noah wrote the inequalities $1.77n + 0.63p \leq 15$ and $n + p \geq 8$. If Noah buys 2 notebooks and 4 pens, will this satisfy both constraints? Answer yes or no.

Task card 10 Systems of Inequalities Word Probl...

Omar wants to earn at least $120.00 this month. Omar can choose hours babysitting, b, at $14.00 an hour, and hours mowing lawns, m, at $12.50 an hour. Omar can work at most 9 hours. Omar wrote the inequalities $14.00b + 12.50m \geq 120$ and $b + m \leq 9$. If Omar works 7 hours babysitting and 2 hours mowing lawns, will this satisfy both constraints? Answer yes or no.

Task card 11 Systems of Inequalities Word Probl...

Lukas can spend at most $15.00 on treats for a bake sale. Lukas can choose muffins, m, at $1.81 each, and cookies, c, at $0.73 each. Lukas needs at least 14 treats. Lukas wrote the inequalities $1.81m + 0.73c \leq 15$ and $m + c \geq 14$. If Lukas buys 14 muffins and 1 cookie, will this satisfy both constraints? Answer yes or no.

Task card 12 Systems of Inequalities Word Probl...

Ani has at most $16.00 to spend on school supplies. Ani can choose notebooks, n, at $1.67 each, and pens, p, at $1.04 each. Ani needs at least 13 items. Ani wrote the inequalities $1.67n + 1.04p \leq 16$ and $n + p \geq 13$. If Ani buys 2 notebooks and 12 pens, will this satisfy both constraints? Answer yes or no.

Task card 13 Systems of Inequalities Word Probl...

Lily can spend at most $22.00 on treats for a bake sale. Lily can choose muffins, m, at $2.04 each, and cookies, c, at $1.20 each. Lily needs at least 12 treats. Lily wrote the inequalities $2.04m + 1.20c \leq 22$ and $m + c \geq 12$. If Lily buys 4 muffins and 7 cookies, will this satisfy both constraints? Answer yes or no.

Task card 14 Systems of Inequalities Word Probl...

Leo can spend at most $27.00 on treats for a bake sale. Leo can choose muffins, m, at $2.44 each, and cookies, c, at $0.81 each. Leo needs at least 19 treats. Leo wrote the inequalities $2.44m + 0.81c \leq 27$ and $m + c \geq 19$. If Leo buys 2 muffins and 17 cookies, will this satisfy both constraints? Answer yes or no.

Task card 15 Systems of Inequalities Word Probl...

Omar can spend at most $18.00 on treats for a bake sale. Omar can choose muffins, m, at $2.14 each, and cookies, c, at $0.88 each. Omar needs at least 16 treats. Omar wrote the inequalities $2.14m + 0.88c \leq 18$ and $m + c \geq 16$. If Omar buys 2 muffins and 15 cookies, will this satisfy both constraints? Answer yes or no.

Task card 16 Systems of Inequalities Word Probl...

Sofia has $7.00 to spend on snacks for a class trip. Sofia can choose apples, a, at $0.50 each, and granola bars, g, at $0.91 each. Sofia needs at least 10 snacks. Sofia wrote the inequalities $0.50a + 0.91g \leq 7$ and $a + g \geq 10$. If Sofia buys 3 apples and 8 granola bars, will this satisfy both constraints? Answer yes or no.

Task card 17 Systems of Inequalities Word Probl...

Arman has $21.00 to spend on snacks for a class trip. Arman can choose apples, a, at $0.49 each, and granola bars, g, at $1.35 each. Arman needs at least 15 snacks. Arman wrote the inequalities $0.49a + 1.35g \leq 21$ and $a + g \geq 15$. If Arman buys 5 apples and 9 granola bars, will this satisfy both constraints? Answer yes or no.

Task card 18 Systems of Inequalities Word Probl...

Omar can spend at most $20.00 on treats for a bake sale. Omar can choose muffins, m, at $2.25 each, and cookies, c, at $0.79 each. Omar needs at least 12 treats. Omar wrote the inequalities $2.25m + 0.79c \leq 20$ and $m + c \geq 12$. If Omar buys 13 muffins and 1 cookie, will this satisfy both constraints? Answer yes or no.

Task card 19 Systems of Inequalities Word Probl...

Lily has at most $24.00 to spend on school supplies. Lily can choose notebooks, n, at $2.54 each, and pens, p, at $0.85 each. Lily needs at least 9 items. Lily wrote the inequalities $2.54n + 0.85p \leq 24$ and $n + p \geq 9$. If Lily buys 3 notebooks and 6 pens, will this satisfy both constraints? Answer yes or no.

Task card 20 Systems of Inequalities Word Probl...

Maya wants to earn at least $203.00 this month. Maya can choose hours babysitting, b, at $14.00 an hour, and hours mowing lawns, m, at $11.00 an hour. Maya can work at most 16 hours. Maya wrote the inequalities $14.00b + 11.00m \geq 203$ and $b + m \leq 16$. If Maya works 5 hours babysitting and 9 hours mowing lawns, will this satisfy both constraints? Answer yes or no.

Task card 21 Systems of Inequalities Word Probl...

Davit has at most $18.00 to spend on school supplies. Davit can choose notebooks, n, at $1.52 each, and pens, p, at $0.78 each. Davit needs at least 14 items. Davit wrote the inequalities $1.52n + 0.78p \leq 18$ and $n + p \geq 14$. If Davit buys 5 notebooks and 10 pens, will this satisfy both constraints? Answer yes or no.

Task card 22 Systems of Inequalities Word Probl...

Leo can spend at most $26.00 on treats for a bake sale. Leo can choose muffins, m, at $1.75 each, and cookies, c, at $1.04 each. Leo needs at least 20 treats. Leo wrote the inequalities $1.75m + 1.04c \leq 26$ and $m + c \geq 20$. If Leo buys 2 muffins and 19 cookies, will this satisfy both constraints? Answer yes or no.

Task card 23 Systems of Inequalities Word Probl...

Maya has $12.00 to spend on snacks for a class trip. Maya can choose apples, a, at $0.43 each, and granola bars, g, at $1.14 each. Maya needs at least 16 snacks. Maya wrote the inequalities $0.43a + 1.14g \leq 12$ and $a + g \geq 16$. If Maya buys 11 apples and 6 granola bars, will this satisfy both constraints? Answer yes or no.

Task card 24 Systems of Inequalities Word Probl...

Maya has at most $24.00 to spend on school supplies. Maya can choose notebooks, n, at $2.21 each, and pens, p, at $1.13 each. Maya needs at least 10 items. Maya wrote the inequalities $2.21n + 1.13p \leq 24$ and $n + p \geq 10$. If Maya buys 3 notebooks and 5 pens, 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 · Hard

The answers online

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