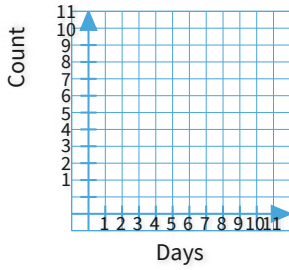


#1 Farmer Michael grows both zucchinis and pumpkins. Pumpkins ripen at a rate of about 3 per day, and Michael has already picked 1 of them. Zucchinis on the other hand ripen at about 1 per day. If Michael has 5 zucchinis already, at some point he will have an equal number of both. When this happens, how many of each type of gourd will he have? Write a system of equations, graph them, and solve the question.



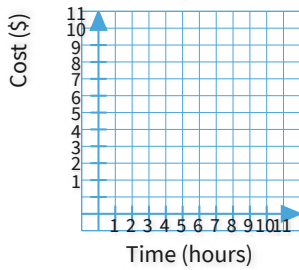
Pumpkins
Zucchinis

- 4
- 10

- 6
- 7

Show your work

#2 Noah went to play lasertag at the local laser hole on afternoon. He paid \$5 for entry and \$1 for each hour he was there. Later when talking to Madison he found out that she also went but paid \$1 for entry, and \$2 per hour. After all this they realize they both spent the exactly same amount of money. How many hours did they both spend? Write a system of equations, graph them, and solve the question.



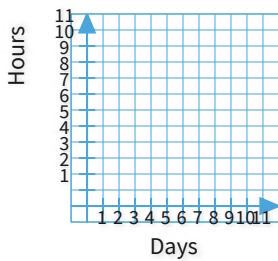
Noah
Madison

- 6
- 1

- 4
- 7

Show your work

#3 Kaylee's and Austin's dance teacher wants them to practice a certain number of hours each week. To do this Kaylee practices 1 hour each day, but on Monday she puts in 6 hours to get a head start. Austin dances for 3 hours on Monday and then puts in 2 hours each day. Even though Kaylee and Austin take different approaches they both finish putting in their hours on the same day. How many hours does their dance teacher want them to practice? Write a system of equations, graph them, and solve the question.



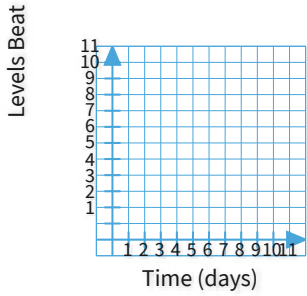
Kaylee
Austin

- 10
- 11

- 9
- 7

Show your work

#4 Logan and Gavin are both playing the same game. Logan is on level 5 and goes through about 1 level each day. His friend Gavin is on level 2 and plays through 2 levels per day. If they pass the game on the same day, how many days until they both beat the game? Write a system of equations, graph them, and solve the question.



Logan
Gavin

5

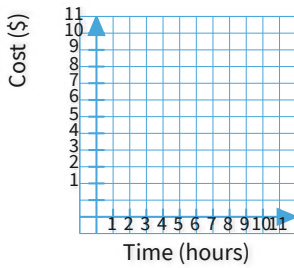
3

4

6

Show your work

#5 Diana went to play lasertag at the local laser hole on afternoon. She paid \$3 for entry and \$1 for each hour she was there. Later when talking to Kaylee she found out that she also went but paid \$1 for entry, and \$3 per hour. After all this they realize they both spent the exactly same amount of money. How many hours did they both spend? Write a system of equations, graph them, and solve the question.



Diana
Kaylee

4

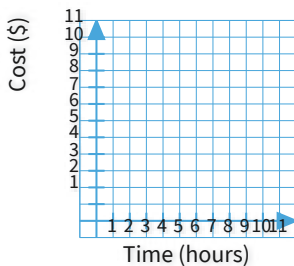
3

1

2

Show your work

#6 Sydney went to play lasertag at the local laser hole on afternoon. She paid \$1 for entry and \$2 for each hour she was there. Later when talking to Landon she found out that he also went but paid \$5 for entry, and \$1 per hour. After all this they realize they both spent the exactly same amount of money. How many hours did they both spend? Write a system of equations, graph them, and solve the question.



Sydney
Landon

7

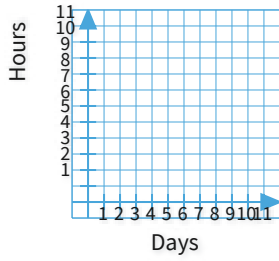
3

4

5

Show your work

#7 Hailey's and Darren's dance teacher wants them to practice a certain number of hours each week. To do this Hailey practices 3 hours each day, but on Monday she puts in 4 hours to get a head start. Darren dances for 2 hours on Monday and then puts in 4 hours each day. Even though Hailey and Darren take different approaches they both finish putting in their hours on the same day. How many days will it take them to finish? Write a system of equations, graph them, and solve the question.

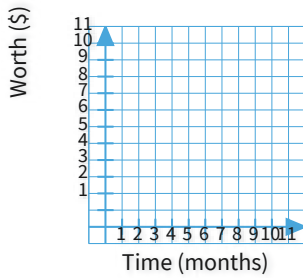


Hailey
Darren

- | | |
|-------------------------|-------------------------|
| <input type="radio"/> 2 | <input type="radio"/> 3 |
| <input type="radio"/> 4 | <input type="radio"/> 1 |

Show your work

#8 Dayco and SupraBrite are competing companies. SupraBrite stock is currently worth \$7, and that increases by \$1 each month. Dayco stock on the other hand is currently worth \$5, which increases by about \$3 each month. Eventually their stocks will both be worth the same amount for a short amount of time. How many months before that happens? Write a system of equations, graph them, and solve the question.

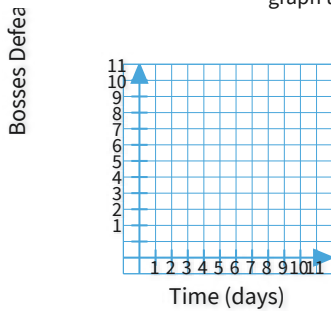


SupraBrite
Dayco

- | | |
|-------------------------|-------------------------|
| <input type="radio"/> 2 | <input type="radio"/> 1 |
| <input type="radio"/> 4 | <input type="radio"/> 3 |

Show your work

#9 Sophia has defeated 3 bosses in Zombie Barber so far, and has been beating around 1 boss each day. Her sister has also been playing and has beaten 1 boss. If her sister beats 2 bosses each day, how many days until they are both on the same boss? Write a system of equations, graph them, and solve the question.

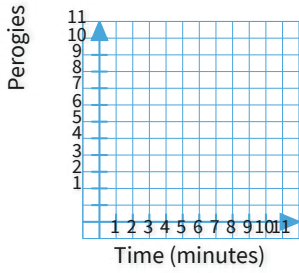


Sophia
Sister

- | | |
|-------------------------|-------------------------|
| <input type="radio"/> 3 | <input type="radio"/> 2 |
| <input type="radio"/> 4 | <input type="radio"/> 5 |

Show your work

#10 Grandma is making perogies for a big family dinner tonight and has already made 2 of them. Later her daughter comes to help and makes 6 right off the bat before slowing down a steady 1 per minute. If grandma is making perogies at 2 per minute at some point both her and her daughter will have made the same number of perogies. How many perogies will they have both made? Write a system of equations, graph them, and solve the question.



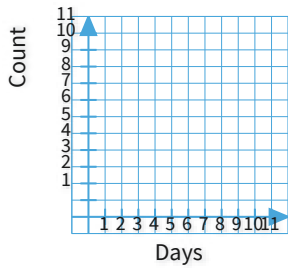
Grandma
Daughter

- 10
- 12

- 11
- 8

Show your work

#11 Farmer Hannah grows both zucchinis and pumpkins. Pumpkins ripen at a rate of about 2 per day, and Hannah has already picked 3 of them. Zucchini on the other hand ripen at about 1 per day. If Hannah has 6 zucchinis already, in how many days will she have an equal number of ripe pumpkins and zucchinis? Write a system of equations, graph them, and solve the question.



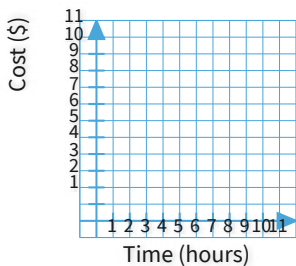
Pumpkins
Zucchini

- 4
- 3

- 6
- 5

Show your work

#12 Mackenzie went to play lasertag at the local laser hole on afternoon. She paid \$6 for entry and \$1 for each hour she was there. Later when talking to Alexa she found out that she also went but paid \$2 for entry, and \$2 per hour. After all this they realize they both spent the exactly same amount of money. How many hours did they both spend? Write a system of equations, graph them, and solve the question.



Mackenzie
Alexa

- 4
- 7

- 5
- 6

Show your work

Question	Answer
#1	choice 4
#2	choice 2
#3	choice 2
#4	choice 2
#5	choice 3
#6	choice 3
#7	choice 1
#8	choice 2
#9	choice 2
#10	choice 1
#11	choice 3
#12	choice 1