

#1

Savannah pays for a total of 27 kilowatts of power for a month of running 3 televisions and 5 refrigerators. The next month she uses a total of 32 kilowatts for 5 televisions and 4 refrigerators. How many kilowatts a month do televisions and refrigerators use? Write a system of equations to describe the situation below, solve using elimination.

Televisions use kilowatts,
while refrigerators use kilowatts.

Show your work

#2

In a fantastical sport that Jackson plays, he can get 5 short shots and 2 long shots for a total of 23 points. In another games he gets a total of 28 points with 4 short shots and 4 long shots. How much is each type of shot worth? Write a system of equations to describe the situation below and solve using elimination.

Long shots are worth ,
and short shots are worth .

Show your work

#3

Every day Noah's mom goes to the store and buys apples and oranges. Yesterday she bought 5 apples and 4 oranges for \$30. Then today she returned home with 4 apples and 3 oranges for \$23. Assuming the price doesn't change, how much do apples and oranges cost?

Apples cost \$,
and oranges cost \$.

Show your work

#4

Addison pays for a total of 16 kilowatts of power for a month of running 2 televisions and 3 refrigerators. The next month she uses a total of 30 kilowatts for 4 televisions and 5 refrigerators. How many kilowatts a month do televisions and refrigerators use? Write a system of equations to describe the situation below, solve using elimination.

Televisions use kilowatts,
while refrigerators use kilowatts.

Show your work

#5

Choose the best answer

Sarah knows she can run 4 kilometers (km) and swim 5 km in 22 minutes. To prove it she swims 3 km and runs 3 km in 15 minutes. Write a system of equations to describe the situation below, solve using elimination.

- | | |
|---|---|
| <input type="radio"/> Swim 1 km in 3 mins,
Run 1 km in 4 mins. | <input type="radio"/> Swim 1 km in 4 mins,
Run 1 km in 2 mins. |
| <input type="radio"/> Swim 1 km in 2 mins,
Run 1 km in 3 mins. | <input type="radio"/> Swim 1 km in 5 mins,
Run 1 km in 6 mins. |

Show your work

#6

Olivia teaches both a morning and an evening math class. On the midterm 3 morning students wrote it as well as 5 evening students. A sum of all their marks gave a grand total of 25. For the final there was a grand total of 33 marks, but it was written by 5 morning students and 4 evening students. What is the average mark for both classes? Write a system of equations to describe the situation below, solve using elimination.

Morning class has an average of ,
but the evening class has an average of .

Show your work

#7

Jack knows he can run 2 kilometers (km) and swim 2 km in 16 minutes. To prove it he swims 5 km and runs 4 km in 37 minutes. Write a system of equations to describe the situation below, solve using elimination.

Jack can run a km in minutes
and swim a km in minutes.

Show your work

#8

Hailey teaches both a morning and an evening math class. On the midterm 5 morning students wrote it as well as 2 evening students. A sum of all their marks gave a grand total of 31. For the final there was a grand total of 25 marks, but it was written by 2 morning students and 5 evening students. What is the average mark for both classes? Write a system of equations to describe the situation below, solve using elimination.

Morning class has an average of ,
but the evening class has an average of .

Show your work

#9

Choose the best answer

Write a system of equations to describe the situation below and solve using elimination. Over the last two months Cameron has been keeping track of how many cuts and colors he has done at the salon. The first month he did 3 cuts and 5 colors and made \$19. The following month he made \$12 by doing 2 cuts and 3 colors. How much does a cut and a color cost at Cameron's salon?

- | | |
|---|---|
| <input type="radio"/> \$2 haircut,
\$3 coloring. | <input type="radio"/> \$4 haircut,
\$5 coloring. |
| <input type="radio"/> \$5 haircut,
\$4 coloring. | <input type="radio"/> \$3 haircut,
\$2 coloring. |

Show your work

#10

Every day Madison's mom goes to the store and buys apples and oranges. Yesterday she bought 5 apples and 3 oranges for \$21. Then today she returned home with 4 apples and 5 oranges for \$22. Assuming the price doesn't change, how much do apples and oranges cost?

Apples cost \$,
and oranges cost \$.

Show your work

#11

Jack knows he can run 2 kilometers (km) and swim 2 km in 16 minutes. To prove it he swims 5 km and runs 4 km in 37 minutes. Write a system of equations to describe the situation below, solve using elimination.

Jack can run a km in minutes
and swim a km in minutes.

Show your work

#12

Choose the best answer

Brayden went to the store to buy socks. He bought 5 sport socks and 5 warm socks for \$35. Next time he went to the same store he bought 4 sport socks and 4 warm socks for a total of \$28. Using the data he has, find out how much each type of sock costs. Write a system of equations to describe the situation below and solve using elimination.

- | | |
|---|---|
| <input type="radio"/> \$4 per sport socks,
\$4 per warm socks. | <input type="radio"/> \$2 per sport socks,
\$5 per warm socks. |
| <input type="radio"/> \$3 per sport socks,
\$8 per warm socks. | <input type="radio"/> \$5 per sport socks,
\$2 per warm socks. |

Show your work

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