1. Mr. Xavier took his 18 students and 9 other chaperones to an amusement park. He paid $882 for admission. Mrs. Yadira took her 11 students and 4 other chaperones to the same amusement park. She paid $489 for admission. Which equation should be added to the equation 18*s* + 9*c* = 882 to determine *s*, the amount the amusement park charges for student admission?

### A. 22*s* + 10*c* = 978

### B. 11*s* + 5*c* = 489C. 9*s* + 5*c* = 441 D. 11*s* + 4*c* = 489

1. Fawn bought a total of 70 cakes for a tea party. She spent $3,025. Fawn bought vanilla cakes for $22 each and fruit filled cakes for $55 each. The system of equations below can be used to find the number of vanilla cakes, *v*, and the number of fruit filled cakes, *f*, Fawn purchased. Which system of equations has the same solution as the system below?

 $\left\{\begin{array}{c}v+f=70\\22v+55f=3,025\end{array}\right.$

1. $\left\{\begin{array}{c}22v+f=70\\22v+55f=3,025\end{array}\right.$
2. $\left\{\begin{array}{c}v+55f=3,850\\22v+55f=3,025\end{array}\right.$
3. $\left\{\begin{array}{c}22v+55f=70\\22v+55f=3,025\end{array}\right.$
4. $\left\{\begin{array}{c}22v+22f=1,540\\22v+55f=3,025\end{array}\right.$
5. A school treasurer purchased jackets for the school store. She used the system of equations below to determine the price for each student jacket, *x*, and the price for each adult jacket, *y*. Write a system of equations that has the same solution as the system of equations below.

$$\left\{\begin{array}{c}84x+12y=9,612\\126x+21y=13,643\end{array}\right.$$

|  |  |
| --- | --- |
| **A:** |  |
|  |  |
| **B:** |  |

1. Rachel is solving the system of equations $\left\{\begin{array}{c}7x-21y=14\\2x+3y=11\end{array}\right.$ using the elimination method. Which of the following steps could she use?
2. Divide the first equation by 2 and then add the result to the second equation.
3. Multiply the first equation by 21 then add the result to the second equation.
4. Multiply the second equation by 3 then add the result to the first equation.
5. Divide the first equation by 7 then add the result to the second equation.
6. Mr. Nigma is solving the system of equations 4*x* – 3*y* = 9 and 2*x* + 6*y* = 5. Which system of equations has the same solution as the system that Mr. Nigma is solving?
7. $\left\{\begin{array}{c}4x-3y=9\\-15y=-1\end{array}\right.$
8. $\left\{\begin{array}{c}4x-3y=9\\9y=19\end{array}\right.$
9. $\left\{\begin{array}{c}2x+6y=5\\6x=23\end{array}\right.$
10. $\left\{\begin{array}{c}2x+6y=5\\10x=23\end{array}\right.$