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## System of Equations Worksheet

1. A group of students decided to raise some money to donate for a relief camp. Both boys and girls decided to contribute some amount which will be the same for all the girls and same for all the boys. If 5 girls and 7 boys decide to contribute, \$50 is collected, but if 7 girls and 5 boys decide to contribute, \$46 is collected. Find the amount contributed by each girl and each boy.
2. A pair of equations  $x = p$  and  $y = q$ , graphically represents lines which are-
  - A. Intersecting at  $(q, p)$
  - B. Intersecting at  $(p, q)$
  - C. Parallel
  - D. Coincident
3. Alex purchased a rectangular plot whose length is  $4\text{ft}$  more than its width. If half of the perimeter of the plot is  $36\text{ft}$ , find the dimensions of the plot.
4. The pair of equations has  $x = -4$  and  $x = 0$ :
  - A. a unique solution
  - B. exactly two solutions
  - C. infinitely many solutions
  - D. no solution
5. For what value of  $b$ , do the equations  $7m - 3n + 1 = 0$  and  $-14m + bn = 2$  represent coincident lines?

6. The cost of 3 digital calculators and 5 digital pens is \$3500. Cost of one more digital calculator and 3 more digital pens is \$1300. Find the total cost of 2 digital calculators and one digital pen.

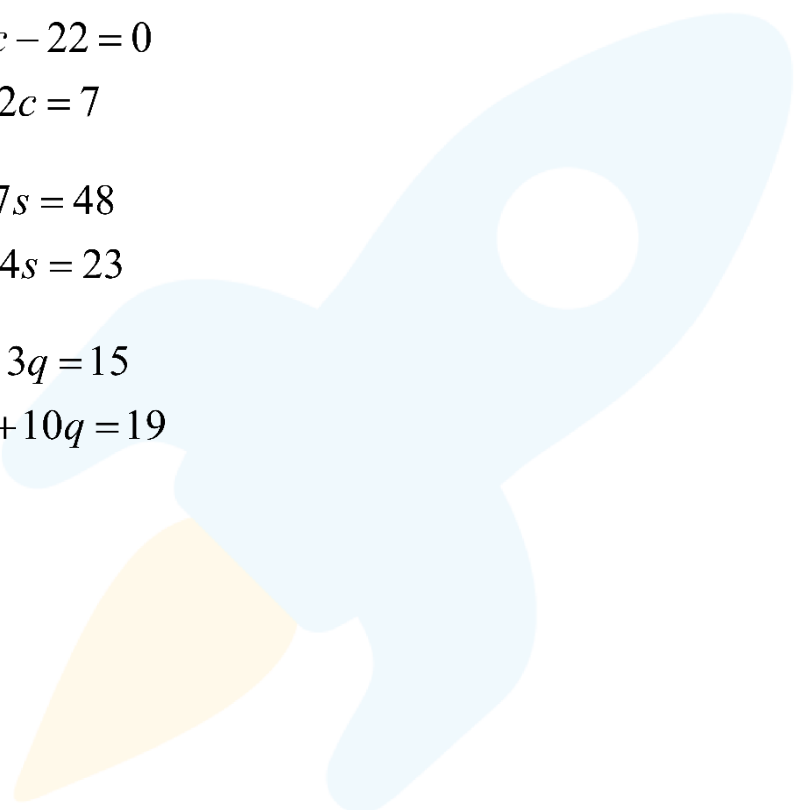
Solve the following system of equations:

7.  $2r + 5s = 20$   
 $6r - 5s = 12$

8.  $9b + 8c - 22 = 0$   
 $3b + 2c = 7$

9.  $5r + 7s = 48$   
 $r + 4s = 23$

10.  $p + 3q = 15$   
 $-3p + 10q = 19$



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