

Solving Systems 2
Using Substitution or Elimination



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1. Blue beads are 0.2 cm long and white beads are 0.3 cm long. You made a necklace which is 35 cm long, using all of your 140 beads. How many beads of each color is your necklace made of?

2.
$$6x - 7y = 8$$
$$5x - 6y = 7$$

3.
$$10x + 12y = 13$$
$$12x + 8y = 7$$

4.
$$\frac{3}{2}x - \frac{1}{3}y = -\frac{1}{4}$$
$$x - 4y = 1$$

5.
$$-\frac{3}{5}x + \frac{1}{3}y = -12$$
$$\frac{1}{3}x + \frac{1}{6}y = \frac{1}{4}$$

6.
$$\frac{11}{12}x + \frac{4}{6}y = \frac{4}{5}$$
$$\frac{5}{8}x - \frac{5}{6}y = -\frac{8}{9}$$

Answers

1. $(70, 70)$

2. $(-1, -2)$

3. $(-\frac{5}{16}, \frac{43}{32})$

4. $(-\frac{4}{17}, -\frac{21}{68})$

5. $(\frac{375}{38}, -\frac{693}{38})$

6. $(\frac{16}{255}, \frac{284}{255})$