

Name : _____

Systems of Equations - Word Problems

- ① A farmhouse shelters 10 animals. Some are pigs and some are ducks. There are 36 legs in total. How many of each animal are there?

- ② In a class, there are 14 more boys than girls. If a total of 32 students are in the class, how many boys and girls are there in the class?

- ③ Two times a number added to another number is 25. Three times the first number minus the other number is 20. Find the two numbers.

- ④ Olivia is $6\frac{1}{2}$ years older than Dan. Three times Olivia's age added to six times Dan's age is 36. Find the age of each person.

- ⑤ The length of Sandy's garden is 4 meters greater than 3 times the width. The perimeter of her garden is 60 meters. Find the dimensions of Sandy's garden.

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Answers

- ① A farmhouse shelters 10 animals. Some are pigs and some are ducks. There are 36 legs in total. How many of each animal are there?

Ans: 2 ducks, 8 pigs

- ② In a class, there are 14 more boys than girls. If a total of 32 students are in the class, how many boys and girls are there in the class?

Ans: 23 boys, 9 girls

- ③ Two times a number added to another number is 25. Three times the first number minus the other number is 20. Find the two numbers.

Ans: 9, 7

- ④ Olivia is $6\frac{1}{2}$ years older than Dan. Three times Olivia's age added to six times Dan's age is 36. Find the age of each person.

Ans: $8\frac{1}{3}$ years, $1\frac{5}{6}$ years

- ⑤ The length of Sandy's garden is 4 meters greater than 3 times the width. The perimeter of her garden is 60 meters. Find the dimensions of Sandy's garden.

Length = 23.5 meters, Breadth = 6.5 meters