

System of equations

Name: _____ Marks: _____

1 Two planes left an airport at the same time flying in opposite directions. One flew 50 mph faster than the other. After 2 hours, they were 500 miles apart. Find their speeds.

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2 A candy shop sells chocolates and lollipops. Chocolates cost \$1.50 each, and lollipops cost \$0.50 each. If the shop sold 100 items and earned \$100, how many chocolates and lollipops were sold?

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3 A school is organizing a field trip and has \$500 to spend. Buses cost \$100 each, and vans cost \$50 each. If the school needs a total of 10 vehicles, how many of each type should they rent?

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4 A grocer sells 40 kg of apples and oranges, making \$150. Apples cost \$4 per kg, and oranges cost \$2 per kg. How many kg of apples and oranges were sold?

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5 The length of a rectangle is 3 times its width. If the perimeter is 48 cm, find the dimensions of the rectangle.

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6 A farmer has 50 animals, consisting of sheep and goats. If the total number of legs is 140, how many sheep and goats are there?

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7 Two numbers have a sum of 70. The larger number is 4 more than twice the smaller number. Find the numbers.

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8 A company produces two types of chairs: wooden and metal. A wooden chair requires 2 hours of labor, and a metal chair requires 3 hours. The company has 40 hours of labor available and makes a total of 15 chairs. How many wooden and metal chairs were produced?

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9 The sum of two numbers is 20, and their product is 96. Find the two numbers.

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10 A store sells two brands of pens. Brand A costs \$2 per pen, and Brand B costs \$3 per pen. If 100 pens were sold for \$250, how many of each brand were sold?

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11 A classroom has 40 students, consisting of boys and girls. If there are twice as many girls as boys, how many of each are there?

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12 A mixture contains 60 liters of water and milk. If the ratio of water to milk is 2:3, how many liters of each are in the mixture?

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13 A school's annual math and science fair raised \$150. Admission tickets for adults cost \$10 and \$7 for students. If 10 tickets were for students, how many were for adults?

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14 The difference between two numbers is 10. Their sum is 60. Find the two numbers.

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15 A school cafeteria sells sandwiches and drinks. A sandwich costs \$4, and a drink costs \$2. If the cafeteria sold 50 items and earned \$140, how many sandwiches and drinks were sold?

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