

Introduction to Word Problems

1. A train is traveling at an average speed of 90 km/h. How far will it travel in 2.5 hours?
2. If a number is decreased by 27, the result is 36. Find the number.
3. A football team is finished its 12-game season with no ties. The team won twice as many games as it lost. How many games did the team win?
4. A store sold 102 record albums during a two-day sale. Twice as many albums were sold the second day as the first. How many albums were sold the first day?
5. If three times a number is increased by 11, the result is 68. Find the number.
6. A bank contains 57 nickels, dimes, and quarters. There are 8 more dimes than quarters and 5 more nickels than dimes. How much money is in the bank?
7. A football team gained 23 yards on one play. However, the ball was brought back to the line of scrimmage and then the team was given a 15 yard penalty. How far was the ball from where it would have been had no penalty been assessed?
8. An elevator left the twenty-sixth floor of a building and went up eight floors, then down twelve, and back up four. Where was the elevator then?
9. At the beginning of the month the Cranes had \$250 in their vacation fund. They were able to add \$10 per week for four weeks. Then they had to take out \$85 for emergency household repairs. How much was in the fund at the end of the month?
10. A neighborhood association collected \$85 in dues, earned \$280 at a garage sale, and got \$124 in donations. The association needs \$500 to build a playground. How much more must it collect?
11. An 8:00 AM flight from Boston to Minneapolis took three hours. The time in Minneapolis is one hour earlier than in Boston. What time was it in Minneapolis when the flight arrived?
12. A train is traveling at a rate of 100 km/h. A conductor is walking toward the back of the train at 5 km/h. What is the conductor's speed relative to the ground?
13. Neon freezes at -248.61°C and boils at -246.09°C . Find the difference between the boiling point and the freezing point.
14. The highest point in California is Mount Whitney at 4418 m above sea level. The lowest point is Death Valley at 86 m below sea level. Find the difference in altitude?

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15. A candidate goes door to door along Main Street from a point 16 blocks west of campaign headquarters to a point 12 blocks east of headquarters. How many blocks has she gone?

16. Find the difference in degrees of longitude between Chicago at about 88° W and Rome at about 12° E.

17. Mount Everest at 8848 m above sea level is 9245 m higher than the Dead Sea. Find the altitude of the Dead Sea.

18. One winter day the temperature in Marshview reached a record high of 18.3° C. That was 22.7° higher than the average temperature for that day. Find the average temperature.

19. A number increased by 13 is -5. Find the number.

20. A glass of milk costs 55¢. If a glass of milk and a sandwich cost \$1.90, how much does the sandwich cost?

21. Fifteen less than a number is 43. Find the number.

22. A plane flew 145 km/h faster when it was flying with the wind than it would have flown in still air. If its speed with the wind was 970 km/h, find the speed of the plane in still air.

23. The Booster Club had \$425 in its treasury. The members earned \$642 selling refreshments. They donated \$320 to the football team for bus rentals. How much money did they have left?

24. Seventy-six tickets were sold in advance for a museum field trip. Thirteen tickets were sold the day of the trip. Seven people had to return their tickets and did not go. How many people when altogether?

25. The opposite of seven times a number is 238. Find the number.

26. One fourth of a number is 73. Find the number.

27. A 2.5 kg bag of apples costs 75¢. Find the cost per kilogram of the apples.

28. Frank works the same number of hours each week at a part-time job. In the first 8 weeks he worked 68 hours. How many hours did he work each week?

29. A rectangle is 24 cm long and has a perimeter of 72 cm. Find the width.

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30. A restaurant cuts its large pizza into 8 slices and sells them for 75¢ each. If the pizzas were cut into 6 slices, how much would the restaurant have to charge for each slice to make the same amount?
31. If you subtract 34 from the product of 15 and a number, you get 146. Find the number.
32. The perimeter of a rectangle is 152 m. The width is 35 m. Find the length.
36. Carlene paid \$131.44, including tax, for a desk. The tax was 31 cents less than $\frac{1}{16}$ the cost of the desk. Find the cost of the desk.
37. Twin Cinema I seats 150 more people than Twin Cinema II. If together they set 1250 people, find the number of seats in Twin Cinema II.
38. A bank contains 36 nickels, dimes, and quarter. There are 4 more dimes than quarters and twice as many nickels as quarter. How many of each coin are in the bank?
39. The longest side of a triangle is 8 cm longer than the shortest side and 5 cm longer than the third side. If the perimeter of the triangle is 56 cm, find the lengths of the three sides.
40. The larger of two consecutive integers is 10 more than twice the smaller. Find the integers.
41. Find a number whose product with 6 is the same as its sum with 45.
42. Five times a number, increased by 3, is the same as three times the number, increased by 27. Find the number.
43. The sum of two numbers is 20. Twice one number is 4 more than four times the other. Find the numbers.
44. The lengths of the sides of a triangle are consecutive odd integers. If the perimeter is 1 less than four times the shortest side, find the length of each side.
45. A sandwich costs 20¢ more than a salad plate. Six sandwiches cost as much as seven sandwich plates. Find the cost of each.