

21. The units digit of a two-digit number is 1 more than 3 times the tens digit. If the digits are reversed, the new number is 9 less than 3 times the original number. Find the new number.
22. The amount of money a family spends on food varies directly as their income. A family making \$32,000 a year will spend \$8,000 on food. How much would a family earning \$52,000 spend on food?
23. The current in an electrical circuit varies inversely as the resistance. The current is 15 amps when the resistance is 40 ohms. Find the current when the resistance is 30 ohms.
24. Jack is 12 years older than Mikey. Four years ago he was 4 times as old as Mikey. How old is each now?
25. Seth is 20 years older than Aidan. In 8 years he will be 3 times as old as Aidan. How old is each now?
26. How many cubic centimeters of a solution that is 65% alcohol must be added to 50 cubic centimeters of a 25% alcohol solution to make a 40 % solution?
27. Claire has one solution that is 40% salt and another solution that is 65% salt. How much of the 65% solution must be added to 5 deciliters of the original solution to obtain a solution that is 55% salt?
28. The measures of two supplementary angles are in the ratio 11:9. Find the measure of each angle.