Changing Ratios

(1) The ratio of girls to boys at a party was 15:11. After 6 girls arrived, the ratio of girls to boys at the party was 46:33. Find the number of children at the start.

(2) The ratio of girls to boys at a party was 25:38. After 5 girls arrived, the ratio of girls to boys at the party was 90:133. Find the number of girls at the start.

(3) The ratio of girls to boys at a party was 10:33. After 12 girls arrived, the ratio of girls to boys at the party was 23:66. Find the number of girls at the end.

(4) The ratio of girls to boys at a party was 23:10. After 10 girls left, the ratio of girls to boys at the party was 41:20. Find the number of boys at the start.

(5) The ratio of girls to boys at a party was 13:27. After 10 girls left and 10 boys arrived, the ratio of girls to boys at the party was 17:43. Find the number of boys at the start.

(6) The ratio of girls to boys at a party was 41:26. After 6 girls left and 6 boys arrived, the ratio of girls to boys at the party was 79:55. Find the number of girls at the start.

(7) The ratio of girls to boys at a party was 36:35. After 2 girls left, the ratio of girls to boys at the party was 46:45. Find the number of girls at the start.

(8) The ratio of girls to boys at a party was 13:25. After 1 girls left and 1 boys arrived, the ratio of girls to boys at the party was 32:63. Find the number of girls at the end.

(9) The ratio of girls to boys at a party was 4:3. After 7 girls arrived and 7 boys left, the ratio of girls to boys at the party was 45:32. Find the number of girls at the end.

(10) The ratio of girls to boys at a party was 21:5. After 9 girls left and 9 boys arrived, the ratio of girls to boys at the party was 3:1. Find the number of children at the end.

(11) The ratio of girls to boys at a party was 33:37. After 4 boys left, the ratio of girls to boys at the party was 66:73. Find the number of boys at the end.

(12) The ratio of girls to boys at a party was 25:21. After 4 boys left, the ratio of girls to boys at the party was 50:41. Find the number of boys at the end.

(13) The ratio of girls to boys at a party was 10:11. After 9 girls left and 9 boys arrived, the ratio of girls to boys at the party was 29:34. Find the number of boys at the start.

(14) The ratio of girls to boys at a party was 15:4. After 8 boys left, the ratio of girls to boys at the party was 45:11. Find the number of boys at the start.

(15) The ratio of girls to boys at a party was 13:44. After 8 boys left, the ratio of girls to boys at the party was 13:42. Find the number of girls at the end.

(16) The ratio of girls to boys at a party was 25:18. After 10 boys left, the ratio of girls to boys at the party was 100:67. Find the number of children at the start.

(17) The ratio of girls to boys at a party was 43:27. After 8 boys arrived, the ratio of girls to boys at the party was 43:28. Find the number of children at the end.

(18) The ratio of girls to boys at a party was 21:46. After 12 girls arrived and 12 boys left, the ratio of girls to boys at the party was 24:43. Find the number of boys at the end.

(19) The ratio of girls to boys at a party was 27:31. After 8 girls left and 8 boys arrived, the ratio of girls to boys at the party was 13:16. Find the number of children at the end.

(20) The ratio of girls to boys at a party was 9:7. After 10 girls left, the ratio of girls to boys at the party was 79:63. Find the number of boys at the start.

(21) The ratio of girls to boys at a party was 17:36. After 9 girls arrived, the ratio of girls to boys at the party was 1:2. Find the number of boys at the start.

(22) The ratio of girls to boys at a party was 6:5. After 3 boys left, the ratio of girls to boys at the party was 28:23. Find the number of children at the end.

(23) The ratio of girls to boys at a party was 13:5. After 8 girls left and 8 boys arrived, the ratio of girls to boys at the party was 35:19. Find the number of boys at the end.

(24) The ratio of girls to boys at a party was 32:15. After 10 boys arrived, the ratio of girls to boys at the party was 32:17. Find the number of children at the end.

(25) The ratio of girls to boys at a party was 37:48. After 7 girls left and 7 boys arrived, the ratio of girls to boys at the party was 43:59. Find the number of girls at the end.

(26) The ratio of girls to boys at a party was 19:39. After 8 girls arrived, the ratio of girls to boys at the party was 47:91. Find the number of girls at the start.

(27) The ratio of girls to boys at a party was 34:43. After 4 girls left, the ratio of girls to boys at the party was 67:86. Find the number of girls at the end.

(28) The ratio of girls to boys at a party was 29:39. After 12 girls left, the ratio of girls to boys at the party was 83:117. Find the number of boys at the end.

(29) The ratio of girls to boys at a party was 6:17. After 12 girls left and 12 boys arrived, the ratio of girls to boys at the party was 24:91. Find the number of children at the start.

(30) The ratio of girls to boys at a party was 13:8. After 6 girls left, the ratio of girls to boys at the party was 3:2. Find the number of children at the start.

(31) The ratio of girls to boys at a party was 26:29. After 9 girls arrived and 9 boys left, the ratio of girls to boys at the party was 27:28. Find the number of children at the end.

(32) The ratio of girls to boys at a party was 11:6. After 9 girls left, the ratio of girls to boys at the party was 16:9. Find the number of boys at the start.

(33) The ratio of girls to boys at a party was 41:31. After 1 girls left and 1 boys arrived, the ratio of girls to boys at the party was 143:109. Find the number of boys at the end.

(34) The ratio of girls to boys at a party was 23:30. After 12 girls left and 12 boys arrived, the ratio of girls to boys at the party was 17:36. Find the number of girls at the start.

(35) The ratio of girls to boys at a party was 25:12. After 10 boys arrived, the ratio of girls to boys at the party was 200:101. Find the number of children at the start.

(36) The ratio of girls to boys at a party was 11:18. After 12 boys left, the ratio of girls to boys at the party was 11:12. Find the number of girls at the end.

(37) The ratio of girls to boys at a party was 50:31. After 1 boys arrived, the ratio of girls to boys at the party was 175:109. Find the number of boys at the end.

(38) The ratio of girls to boys at a party was 37:38. After 2 girls left and 2 boys arrived, the ratio of girls to boys at the party was 61:64. Find the number of boys at the start.

(39) The ratio of girls to boys at a party was 10:9. After 10 girls arrived and 10 boys left, the ratio of girls to boys at the party was 75:58. Find the number of girls at the end.

(40) The ratio of girls to boys at a party was 5:3. After 4 girls left, the ratio of girls to boys at the party was 103:63. Find the number of girls at the start.

(41) The ratio of girls to boys at a party was 4:3. After 4 boys left, the ratio of girls to boys at the party was 132:97. Find the number of boys at the start.

(42) The ratio of girls to boys at a party was 13:5. After 10 boys arrived, the ratio of girls to boys at the party was 52:25. Find the number of boys at the end.

(43) The ratio of girls to boys at a party was 3:2. After 5 boys arrived, the ratio of girls to boys at the party was 77:53. Find the number of girls at the start.

(44) The ratio of girls to boys at a party was 21:17. After 1 boys arrived, the ratio of girls to boys at the party was 28:23. Find the number of children at the end.

(45) The ratio of girls to boys at a party was 46:21. After 3 girls left, the ratio of girls to boys at the party was 15:7. Find the number of boys at the start.

(46) The ratio of girls to boys at a party was 10:33. After 4 boys arrived, the ratio of girls to boys at the party was 20:67. Find the number of girls at the end.