

28. Divide 144 into four such parts that the first increased by 3, the second diminished by 3, the third multiplied by 3 and the fourth divided by 3 shall all give the same result.

29. The sides of a rectangle are 12 and 20 feet. What is the breadth of the border which must be added all round that the whole area may be 384 square feet?

30. Find the price of eggs per dozen when two less in a shilling's worth raises the price one penny per dozen.

31. The difference between the squares of two consecutive numbers is 1503. Find the numbers.

32. What number is that, the double of which exceeds its half by 24?

33. A post is a fourth of its length in the mud, a third of its length in the water and 10 feet above the water. What is its length?

34. A is twice as old as B; 22 years ago he was three times as old. Required A's present age.

35. What sum of money is that from which, if \$46.20 be subtracted, one-half of the remainder shall exceed one-third of the remainder by \$50?

36. Divide 162 into three such parts that the first divided by 2, the second by 3, and the third by 4 shall give the same quotient.

37. Divide \$2,481 among A, B and C so that B may have \$72 more than A, and C \$539 less than A and B together.

38. Divide \$1,107 among A, B and C so that B may have half as much again as A, and C third as much again as B.

39. If 117 be added to a certain number the result is four times that number. Find the number.

40. Divide the number 132 into two parts such that five times one part may be equal to six times the other.

41. The sum of \$745 was raised by A, B and C together; B contributed three times as much as A less \$30, and C half as much as A and B together less \$20. How much did each contribute?