

Name: \_\_\_\_\_

- 1) The sum of two numbers is 360. When the larger is divided by the smaller, the quotient is 7. Find the numbers.
- 2) The sum of two numbers is 125. When the larger is divided by the smaller, there is a quotient of 4 and a remainder of 10. Find the numbers.
- 3) The numerator of a certain fraction is 9 less than its denominator. When reduced to its lowest terms, the fraction is equivalent to  $\frac{2}{3}$ . Find the fraction.
- 4) Separate 144 into two parts such that one part will be 12 less than twice the other.
- 5) If one-half of a number is 8 more than one-third of the number, find the number.
- 6) The larger of two numbers is 12 less than 5 times the smaller. If the smaller number is equal to  $\frac{1}{3}$  of the larger number, find the numbers.
- 7) Separate 150 into two parts such that one part is two-thirds of the other part.
- 8) The larger of two numbers is 25 more than the smaller. If the larger is divided by the smaller, the quotient is 5 and the remainder is 1. Find the numbers.
- 9) When the reciprocal of a number is decreased by 2, the result is 5. Find the number.
- 10) One-half of the reciprocal of a number exceeds one-third of the reciprocal of the number by 2. Find the number.
- 11) The numerator of a fraction exceeds the denominator by 3. If 3 is added to the numerator and 3 is subtracted from the denominator, the resulting fraction is equal to  $\frac{5}{2}$ . Find the original fraction.
- 12) If 3 times a number is increased by one-third of itself, the result is 280. Find the number.
- 13) The larger of two numbers exceeds the smaller by 14. If the smaller number is equal to  $\frac{3}{5}$  of the larger number, find the numbers.
- 14) Separate 90 into two parts such that one part is  $\frac{1}{2}$  of the other part.
- 15) One-third of the result obtained by adding 5 to a certain number is equal to one-half of the result obtained when 5 is subtracted from the number. Find the number.

(turn over)

- 16) The numerator of a fraction is 8 less than the denominator of the fraction. The value of the fraction is  $\frac{3}{5}$ . Find the fraction.
- 17) The denominator of a fraction exceeds twice the numerator of the fraction by 10. The value of the fraction is  $\frac{5}{12}$ . Find the fraction.
- 18) The denominator of a fraction is 30 more than the numerator of the fraction. If 10 is added to the numerator of the fraction and the denominator is unchanged, the value of the resulting fraction becomes  $\frac{3}{5}$ . Find the original fraction.
- 19) The numerator of a certain fraction is three times the denominator. If the numerator is decreased by 1 and the denominator is increased by 2, the value of the resulting fraction is  $\frac{5}{2}$ . Find the original fraction.
- 20) What number must be added to both the numerator and denominator of the fraction  $\frac{7}{19}$  to make the value of the resulting fraction  $\frac{3}{4}$ ?
- 21) The numerator of a fraction is 7 less than the denominator. If 3 is added to the numerator and 9 is subtracted from the denominator, the resulting fraction is equal to  $\frac{3}{2}$ . Find the original fraction.
- 22) If 1 less than 4 times a certain number is divided by 9, the quotient is 3. Find the number.
- 23) One number is 8 more than another. When the larger is divided by the smaller, the quotient is  $\frac{7}{5}$ . Find the numbers.
- 24) Separate 96 into two parts such that when the larger part is divided by the smaller part, the quotient is 7.
- 25) The larger of two numbers is 2 less than 7 times the smaller. If the larger is divided by the smaller, the quotient is 6 and the remainder is 5. Find the numbers.
- 26) The larger of two numbers exceeds twice the smaller by 9. The larger divided by the smaller gives a quotient of 3 and a remainder of 4. Find the numbers.
- 27) When the reciprocal of a number is increased by  $\frac{1}{4}$ , the result is 3. Find the number.