# WRITING A RATIO AS A FRACTION

Answer all of these questions. Remember to show your working out in all questions.

## MAIN QUESTIONS

1. Write the ratio 3:5 as a fraction — 3/5

2. Express 2:7 as a fraction in simplest form — 2/7

3. Convert the ratio 4:9 to a fraction — 4/9

4. Write 5:8 as a fraction — 5/8

5. Express 7:11 as a fraction — 7/11

6. Convert 3:4 to a fraction — 3/4

7. Write the ratio 1:3 as a fraction — 1/3

8. Express 6:13 as a fraction — 6/13

9. Convert 9:10 to a fraction — 9/10

10. Write 11:15 as a fraction — 11/15

11. Express the ratio 2:3:5 as fractions of the whole — 1/5, 3/10, 1/2

12. Convert the ratio 3:4:5 to fractions — 1/4, 1/3, 5/12

13. Write 1:2:3 as fractions of the total — 1/6, 1/3, 1/2

14. Express 4:5:6 as fractions — 4/15, 1/3, 2/5

15. Convert 2:3:7 to fractions — 1/6, 1/4, 7/12

16. Given that a:b = 2:3 and b:c = 4:5, find a:c as a fraction — 8/15

**17.** If x:y = 3:4 and y:z = 2:5, express x:z as a fraction — 3/10

**18.** Given p:q = 5:6 and q:r = 3:7, find p:r as a fraction — 5/14

**19.** If m:n = 2:5 and n:o = 4:3, express m:o as a fraction — 8/15

**20.** Given a:b = 7:8 and b:c = 2:9, find a:c as a fraction — 7/36

**21.** Express the ratio 1/4 : 1/3 in simplest form as a fraction — 3/4

**22.** Convert 2/5 : 3/7 to a single fraction in simplest form — 14/15

**23.** Write 3/8 : 5/6 as a fraction in lowest terms — 9/20

**24.** Express 4/9 : 2/3 as a single fraction — 2/3

**25.** Convert 5/12 : 7/8 to a fraction in simplest form — 10/21

**26.** Given that 2/3 of A equals 3/4 of B, find A:B as a fraction — 9/8

**27.** If 3/5 of X equals 4/7 of Y, express X:Y as a fraction — 20/21

**28.** Given that 5/8 of P equals 2/3 of Q, find P:Q as a fraction — 16/15

**29.** If 7/9 of M equals 3/5 of N, express M:N as a fraction — 27/35

**30.** Given that 4/11 of R equals 5/13 of S, find R:S as a fraction — 55/52

# MASTER QUESTIONS

**M1.** In a mixture, the ratio of alcohol to water is 3:7. What fraction of the mixture is alcohol? — 3/10

**M2.** A sum of money is divided between three people in the ratio 2:3:5. What fraction does the second person receive? — 3/10

**M3.** The ratio of boys to girls in a class is 4:5. What fraction of the class are girls? — 5/9

**M4.** In a recipe, flour and sugar are mixed in the ratio 5:2. What fraction of the mixture is sugar?

2/7

**M5.** The angles of a triangle are in the ratio 2:3:4. What fraction of the total angle is the largest angle?

4/9

**M6.** A bag contains red, blue and green marbles in the ratio 3:4:5. What fraction of the marbles are not blue?

2/3

**M7.** The ratio of the lengths of three pieces of rope is 1:2:3. The shortest piece is 2 metres long. What fraction of the total length is the longest piece?

1/2

**M8.** In a school, the ratio of students who walk to cycle to school is 5:3. What fraction of students cycle to school?

3/8

**M9.** The ratio of the ages of three siblings is 2:3:4. The youngest is 8 years old. What fraction of their combined ages is the middle child's age?

1/3

**M10.** In a box of chocolates, the ratio of dark to milk to white chocolates is 3:5:2. What fraction of the chocolates are either dark or white?

1/2