

WRITING A RATIO AS A FRACTION

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

MAIN QUESTIONS

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| 1. Write the ratio 3:5 as a fraction | 2. Express 2:7 as a fraction in simplest form |
| 3. Convert the ratio 4:9 to a fraction | 4. Write 5:8 as a fraction |
| 5. Express 7:11 as a fraction | 6. Convert 3:4 to a fraction |
| 7. Write the ratio 1:3 as a fraction | 8. Express 6:13 as a fraction |
| 9. Convert 9:10 to a fraction | 10. Write 11:15 as a fraction |
| 11. Express the ratio 2:3:5 as fractions of the whole | 12. Convert the ratio 3:4:5 to fractions |
| 13. Write 1:2:3 as fractions of the total | 14. Express 4:5:6 as fractions |
| 15. Convert 2:3:7 to fractions | 16. Given that $a:b = 2:3$ and $b:c = 4:5$, find $a:c$ as a fraction |
| 17. If $x:y = 3:4$ and $y:z = 2:5$, express $x:z$ as a fraction | 18. Given $p:q = 5:6$ and $q:r = 3:7$, find $p:r$ as a fraction |
| 19. If $m:n = 2:5$ and $n:o = 4:3$, express $m:o$ as a fraction | 20. Given $a:b = 7:8$ and $b:c = 2:9$, find $a:c$ as a fraction |
| 21. Express the ratio $1/4 : 1/3$ in simplest form as a fraction | 22. Convert $2/5 : 3/7$ to a single fraction in simplest form |

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| <p>23. Write $\frac{3}{8} : \frac{5}{6}$ as a fraction in lowest terms</p> <p>25. Convert $\frac{5}{12} : \frac{7}{8}$ to a fraction in simplest form</p> <p>27. If $\frac{3}{5}$ of X equals $\frac{4}{7}$ of Y, express X:Y as a fraction</p> <p>29. If $\frac{7}{9}$ of M equals $\frac{3}{5}$ of N, express M:N as a fraction</p> | <p>24. Express $\frac{4}{9} : \frac{2}{3}$ as a single fraction</p> <p>26. Given that $\frac{2}{3}$ of A equals $\frac{3}{4}$ of B, find A:B as a fraction</p> <p>28. Given that $\frac{5}{8}$ of P equals $\frac{2}{3}$ of Q, find P:Q as a fraction</p> <p>30. Given that $\frac{4}{11}$ of R equals $\frac{5}{13}$ of S, find R:S as a fraction</p> |
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MASTER QUESTIONS



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- M1. In a mixture, the ratio of alcohol to water is 3:7. What fraction of the mixture is alcohol?
- M2. A sum of money is divided between three people in the ratio 2:3:5. What fraction does the second person receive?
- M3. The ratio of boys to girls in a class is 4:5. What fraction of the class are girls?
- M4. In a recipe, flour and sugar are mixed in the ratio 5:2. What fraction of the mixture is sugar?
- M5. The angles of a triangle are in the ratio 2:3:4. What fraction of the total angle is the largest angle?
- M6. A bag contains red, blue and green marbles in the ratio 3:4:5. What fraction of the marbles are not blue?
- 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?
- M8. In a school, the ratio of students who walk to cycle to school is 5:3. What fraction of students cycle to school?

- 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?
- 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?