

COMPARING RATIOS AND FRACTIONS

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

MAIN QUESTIONS

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| 1. Compare 3:4 and 2:3 | 2. Compare 5:8 and 3:5 |
| 3. Compare 7:12 and 5:9 | 4. Compare 2:7 and 3:10 |
| 5. Compare 4:9 and 5:11 | 6. Compare 1:3 and 4:11 |
| 7. Compare 3:8 and 5:12 | 8. Compare 7:15 and 1:2 |
| 9. Compare 5:6 and 8:9 | 10. Compare 11:16 and 7:10 |
| 11. Compare 9:14 and 13:20 | 12. Compare 17:24 and 5:7 |
| 13. Compare 19:30 and 11:18 | 14. Compare 23:36 and 3:5 |
| 15. Compare 31:48 and 2:3 | 16. Compare 3:5:7 and 4:6:9 |
| 17. Compare 2:3:5 and 3:4:6 | 18. Compare 5:7:9 and 4:5:7 |
| 19. Compare 7:10:13 and 6:8:11 | 20. Compare 11:14:17 and 8:10:13 |
| 21. Compare $\frac{1}{2}$ and $\frac{3}{5}$ | 22. Compare $\frac{2}{3}$ and $\frac{5}{7}$ |
| 23. Compare $\frac{3}{4}$ and $\frac{7}{9}$ | 24. Compare $\frac{5}{8}$ and $\frac{2}{3}$ |
| 25. Compare $\frac{7}{12}$ and $\frac{3}{5}$ | 26. Compare $\frac{4}{7}$ and $\frac{5}{8}$ |
| 27. Compare $\frac{9}{16}$ and $\frac{7}{12}$ | 28. Compare $\frac{11}{20}$ and $\frac{8}{15}$ |
| 29. Compare $\frac{13}{24}$ and $\frac{9}{16}$ | 30. Compare $\frac{17}{30}$ and $\frac{11}{20}$ |

MASTER QUESTIONS



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- M1.** A recipe requires flour and sugar in ratio 3:2. Another uses $\frac{5}{8}$ cup flour to $\frac{1}{3}$ cup sugar. Which has more flour relative to sugar?
- M2.** In a class, boys to girls ratio is 5:4. In another class, $\frac{7}{12}$ are boys. Which class has a higher proportion of boys?
- M3.** Paint mixture A uses red:blue in ratio 2:3. Mixture B uses $\frac{3}{7}$ red paint. Which mixture is more blue?
- M4.** A car travels 240 miles on 8 gallons. Another travels 180 miles on 6.5 gallons. Which is more fuel efficient?
- M5.** Team A wins 12 of 18 matches. Team B wins 15 of 22 matches. Which team has a better win rate?
- M6.** A solution is $\frac{3}{8}$ acid. Another is 5:11 acid to water. Which is more concentrated?
- M7.** A map scale is 1:25000. Another uses 1cm to 0.4km. Which shows more detail?
- M8.** A alloy is copper:zinc 7:3. Another is $\frac{13}{20}$ copper. Which has more zinc?
- M9.** A garden has flower beds to lawn area 2:5. Another has $\frac{3}{10}$ flower beds. Which has more lawn area?
- M10.** A shop sells 9 red shirts for every 4 blue. Another sells $\frac{5}{12}$ of shirts as blue. Which has a higher red:blue ratio?