

COMPARING RATIOS AND FRACTIONS

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

MAIN QUESTIONS

- | | |
|---|---|
| 1. Compare 3:4 and 2:3 $3:4 > 2:3$ | 2. Compare 5:8 and 3:5 $5:8 > 3:5$ |
| 3. Compare 7:12 and 5:9 $7:12 > 5:9$ | 4. Compare 2:7 and 3:10 $2:7 < 3:10$ |
| 5. Compare 4:9 and 5:11 $4:9 > 5:11$ | 6. Compare 1:3 and 4:11 $1:3 < 4:11$ |
| 7. Compare 3:8 and 5:12 $3:8 < 5:12$ | 8. Compare 7:15 and 1:2 $7:15 < 1:2$ |
| 9. Compare 5:6 and 8:9 $5:6 < 8:9$ | 10. Compare 11:16 and 7:10 $11:16 > 7:10$ |
| 11. Compare 9:14 and 13:20 $9:14 > 13:20$ | 12. Compare 17:24 and 5:7 $17:24 < 5:7$ |
| 13. Compare 19:30 and 11:18 $19:30 > 11:18$ | 14. Compare 23:36 and 3:5 $23:36 < 3:5$ |
| 15. Compare 31:48 and 2:3 $31:48 > 2:3$ | 16. Compare 3:5:7 and 4:6:9 $3:5:7 < 4:6:9$ |
| 17. Compare 2:3:5 and 3:4:6 $2:3:5 < 3:4:6$ | 18. Compare 5:7:9 and 4:5:7 $5:7:9 > 4:5:7$ |

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

MASTER QUESTIONS



- 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? | The first recipe 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? | The first 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? | Mixture A 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? | The first car 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? | Team A has a better win rate
- M6.** A solution is $\frac{3}{8}$ acid. Another is 5:11 acid to water. Which is more concentrated? | The first solution is more concentrated
- M7.** A map scale is 1:25000. Another uses 1cm to 0.4km. Which shows more detail? | The first map shows more detail
- M8.** A alloy is copper:zinc 7:3. Another is $\frac{13}{20}$ copper. Which has more zinc? | The first alloy 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? | The first garden 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? | The first shop has a higher red:blue ratio