

Suma de fracciones

Mateducando: Ing. Felipe Zetina

6 de septiembre de 2024

Sección 1: Suma de fracciones con el mismo denominador

Esta serie de ejercicios viene explicada en el video de “Números primos y multiplicación y división por 10” del canal de YouTube ”Mateducando”.

Puedes consultar el video en el siguiente link: <https://www.youtube.com/live/v2YLkptcnhs?si=WU1xs57LELmP1UWs>

También puedes solicitar asesorías de matemáticas o apoyar este proyecto en:

Suma las siguientes fracciones:

- $\frac{3}{7} + \frac{2}{7} - \frac{6}{7}$
- $\frac{3}{6} + \frac{2}{6} - \frac{1}{6}$
- $\frac{4}{9} - \frac{5}{9} + \frac{2}{9} - \frac{4}{9}$
- $\frac{5}{9} + \frac{2}{9} - \frac{7}{9}$
- $\frac{7}{10} - \frac{5}{10} + \frac{3}{10}$
- $\frac{2}{5} + \frac{1}{5} - \frac{7}{5}$
- $\frac{4}{9} - \frac{7}{9} + \frac{2}{9}$
- $\frac{5}{8} + \frac{1}{8} - \frac{8}{8}$
- $\frac{9}{14} - \frac{7}{14} + \frac{1}{14} - \frac{4}{14}$
- $\frac{6}{10} - \frac{9}{10} + \frac{1}{10}$
- $\frac{9}{14} + \frac{2}{14} - \frac{3}{14}$
- $\frac{2}{9} - \frac{1}{9} + \frac{4}{9}$
- $\frac{4}{7} + \frac{2}{7} - \frac{9}{7}$
- $\frac{6}{12} + \frac{2}{12} - \frac{3}{12}$
- $\frac{8}{15} - \frac{9}{15} - \frac{3}{15} + \frac{4}{15}$
- $\frac{3}{8} + \frac{1}{8} - \frac{6}{8}$
- $\frac{4}{7} + \frac{1}{7} - \frac{8}{7}$
- $\frac{5}{7} - \frac{3}{7} + \frac{2}{7}$
- $\frac{6}{11} - \frac{5}{11} + \frac{2}{11} - \frac{3}{11}$
- $\frac{3}{7} - \frac{2}{7} + \frac{1}{7} - \frac{2}{7}$
- $\frac{7}{12} - \frac{2}{12} + \frac{5}{12}$
- $\frac{4}{9} - \frac{5}{9} + \frac{2}{9} - \frac{4}{9}$
- $\frac{9}{14} + \frac{3}{14} - \frac{7}{14}$
- $\frac{8}{15} - \frac{7}{15} + \frac{2}{15}$
- $\frac{6}{8} + \frac{1}{8} - \frac{10}{8}$
- $\frac{3}{5} + \frac{1}{5} - \frac{2}{5}$
- $\frac{7}{10} - \frac{6}{10} + \frac{1}{10} - \frac{3}{10}$
- $\frac{5}{8} - \frac{4}{8} + \frac{3}{8} - \frac{4}{8}$
- $\frac{6}{12} + \frac{1}{12} - \frac{8}{12} + \frac{2}{12}$
- $\frac{7}{12} - \frac{4}{12} + \frac{1}{12}$
- $\frac{4}{10} + \frac{3}{10} - \frac{1}{10}$
- $\frac{4}{7} + \frac{3}{7} - \frac{2}{7}$
- $\frac{3}{8} - \frac{1}{8} + \frac{5}{8}$
- $\frac{3}{7} + \frac{2}{7} - \frac{3}{7}$
- $\frac{2}{5} + \frac{1}{5} - \frac{3}{5} + \frac{4}{5}$
- $\frac{5}{12} + \frac{1}{12} - \frac{4}{12} + \frac{2}{12}$
- $\frac{6}{10} - \frac{5}{10} + \frac{2}{10}$
- $\frac{4}{7} + \frac{1}{7} - \frac{5}{7}$
- $\frac{5}{11} + \frac{3}{11} - \frac{2}{11}$
- $\frac{9}{12} - \frac{3}{12} + \frac{2}{12}$

Sección 2: Suma de fracciones con diferente denominador

Resuelve las siguientes operaciones y expresa tu resultado tanto en fracción impropia como en fracción mixta.

1. $\frac{2}{3} + \frac{1}{5}$

2. $\frac{3}{4} - \frac{2}{7}$

3. $\frac{5}{6} + \frac{3}{8}$

4. $\frac{3}{4} + \frac{1}{2} =$

5. $\frac{7}{10} - \frac{1}{4}$

6. $\frac{2}{3} + \frac{5}{6} =$

7. $\frac{20}{15} - \frac{3}{5} =$

8. $\frac{9}{12} + \frac{2}{9}$

9. $\frac{1}{4} + \frac{17}{20} =$

10. $\frac{4}{5} - \frac{3}{10}$

11. $\frac{8}{15} + \frac{5}{12}$

12. $\frac{75}{100} - \frac{22}{25} =$

13. $\frac{7}{9} - \frac{2}{5}$

14. $-\frac{13}{60} + \frac{12}{15} =$

15. $-\frac{6}{21} - \frac{2}{3} =$

16. $\frac{3}{8} + \frac{7}{10}$

17. $\frac{5}{7} - \frac{1}{6}$

18. $\frac{2}{3} - \frac{1}{5} + \frac{1}{7}$

19. $\frac{4}{9} + \frac{2}{11} - \frac{1}{3}$

20. $\frac{7}{10} - \frac{3}{8} + \frac{1}{4}$

21. $\frac{7}{4} + \frac{3}{4} + \frac{5}{8} =$

22. $\frac{5}{6} + \frac{1}{5} - \frac{3}{9}$

23. $\frac{5}{12} + \frac{3}{12} + \frac{2}{3} =$

24. $\frac{4}{5} + \frac{16}{30} + \frac{7}{15} =$

25. $\frac{8}{15} - \frac{4}{11} + \frac{2}{9}$

26. $\frac{3}{4} + \frac{1}{5} - \frac{2}{7}$

27. $\frac{2}{7} + \frac{15}{28} + \frac{8}{14} =$

28. $\frac{5}{8} + \frac{7}{2} - \frac{53}{16} =$

29. $\frac{9}{12} - \frac{5}{6} + \frac{1}{3}$

30. $\frac{7}{8} - \frac{3}{10} + \frac{2}{5}$

31. $\frac{4}{7} + \frac{1}{3} - \frac{1}{2}$

32. $\frac{4}{6} - \frac{23}{18} + \frac{7}{2} =$

33. $-\frac{17}{30} + \frac{9}{10} + \frac{77}{60} =$

34. $\frac{6}{9} - \frac{2}{7} + \frac{1}{4}$

35. $\frac{5}{8} + \frac{3}{10} - \frac{2}{11}$

36. $\frac{2}{3} + \frac{1}{5} - \frac{1}{6}$

37. $\frac{3}{4} + \frac{13}{20} + \frac{5}{8} =$

38. $\frac{3}{4} - \frac{2}{7} + \frac{1}{9}$

39. $\frac{5}{6} + \frac{3}{8} - \frac{1}{4}$

40. $\frac{10}{12} + \frac{7}{6} + \frac{27}{30} =$

41. $-\frac{10}{15} + \frac{28}{45} - \frac{13}{30} =$

42. $\frac{7}{10} - \frac{1}{4} + \frac{3}{5}$

43. $\frac{9}{12} + \frac{2}{9} - \frac{1}{3}$

44. $\frac{13}{21} + \frac{5}{7} + \frac{24}{35} =$

45. $\frac{50}{80} - \frac{15}{20} - \frac{15}{10} =$

46. $\frac{4}{5} - \frac{3}{10} + \frac{2}{15}$

47. $\frac{8}{15} + \frac{5}{12} - \frac{1}{6}$

48. $\frac{9}{8} + \frac{13}{12} + \frac{13}{24} =$

49. $\frac{7}{9} - \frac{2}{5} + \frac{1}{4}$

50. $\frac{3}{8} + \frac{7}{10} - \frac{2}{15}$

51. $-\frac{14}{21} - \frac{10}{9} + \frac{5}{18} =$

52. $\frac{5}{7} - \frac{1}{6} + \frac{2}{9}$

53. $\frac{2}{3} - \frac{1}{4} + \frac{1}{5} - \frac{1}{6}$

54. $\frac{3}{4} + \frac{2}{9} - \frac{1}{8} + \frac{1}{7}$

55. $\frac{5}{6} + \frac{8}{30} + \frac{12}{15} + \frac{4}{5} =$

56. $\frac{3}{7} + \frac{12}{28} + \frac{4}{3} + \frac{5}{4} =$

57. $\frac{5}{6} - \frac{2}{7} + \frac{3}{10} - \frac{1}{5}$

58. $\frac{7}{10} + \frac{1}{12} - \frac{2}{9} + \frac{1}{4}$

59. $\frac{10}{22} + \frac{3}{2} + \frac{40}{66} + \frac{5}{3} =$

60. $-\frac{4}{36} + \frac{1}{8} - \frac{1}{5} + \frac{3}{40} =$

61. $\frac{9}{11} - \frac{1}{3} + \frac{2}{5} - \frac{1}{2}$

62. $\frac{8}{6} - \frac{50}{21} - \frac{25}{42} + \frac{3}{7} =$

63. $\frac{4}{9} + \frac{3}{8} - \frac{1}{6} + \frac{2}{7}$

64. $-\frac{13}{20} - \frac{2}{5} + \frac{9}{8} - \frac{10}{16} =$

65. $\frac{5}{10} + \frac{3}{8} + \frac{9}{16} + \frac{7}{32} =$

66. $\frac{8}{15} - \frac{1}{5} + \frac{3}{14} - \frac{2}{9}$

67. $\frac{7}{12} + \frac{2}{9} - \frac{5}{8} + \frac{1}{4}$

68. $\frac{10}{32} - \frac{3}{4} - \frac{5}{8} + \frac{17}{64} =$

69. $\frac{3}{10} - \frac{2}{11} + \frac{4}{15} - \frac{1}{9}$

70. $\frac{5}{7} + \frac{1}{6} - \frac{2}{5} + \frac{1}{8}$

Sección 3: Suma de fracciones mixtas con igual denominador

Resuelve las siguientes operaciones y expresa tu resultado tanto en fracción impropia como en fracción mixta.

$$1. 1 + \frac{1}{4} = 1\frac{1}{4} = \frac{5}{4}$$

$$2. 3 + \frac{3}{2} = 4\frac{1}{2} = \frac{9}{2}$$

$$3. 2 + \frac{7}{5} =$$

$$4. 4 + \frac{4}{3} =$$

$$5. 7 + \frac{5}{2} =$$

$$6. 5 - \frac{13}{4} =$$

$$7. 4 - \frac{10}{3} =$$

$$8. 7 - \frac{21}{2} =$$

$$9. \frac{10}{3} - 4 =$$

$$10. 3 - \frac{21}{5} =$$

$$11. \frac{23}{4} - 5 =$$

$$12. 7 + \frac{3}{5} = 7\frac{3}{5} =$$

$$13. \frac{2}{7} + 10 = 10\frac{2}{7} = \frac{72}{7}$$

$$14. 3\frac{1}{3} + \frac{1}{3} = 3\frac{2}{3} =$$

$$15. 4\frac{1}{5} + \frac{2}{5} = 4\frac{3}{5} = \frac{23}{5}$$

$$16. 3\frac{10}{17} + \frac{4}{17} = 3\frac{14}{17} =$$

$$17. 5\frac{15}{21} - \frac{10}{21} = 5\frac{5}{21} =$$

$$18. \frac{2}{7} - 4\frac{5}{7} = -4\frac{3}{7} =$$

$$19. \frac{13}{21} - 7\frac{17}{21} = -7\frac{4}{21} =$$

$$20. 5\frac{1}{5} + 3\frac{2}{5} = 8\frac{3}{5} =$$

$$21. 7\frac{3}{8} + 4\frac{2}{8} = 11\frac{5}{8} =$$

$$22. 2\frac{5}{13} + 4\frac{7}{13} = 6\frac{12}{13} =$$

$$23. 3\frac{2}{7} + 4\frac{1}{7} - 2\frac{5}{7} =$$

$$24. \frac{10}{4} - 2\frac{3}{4} + 1\frac{1}{4} =$$

$$25. 5\frac{3}{8} + 2\frac{2}{8} - \frac{9}{8} =$$

$$26. 4\frac{2}{5} + 3\frac{3}{5} - \frac{8}{5} =$$

$$27. 6\frac{1}{6} - \frac{7}{6} + \frac{4}{6} =$$

$$28. 7\frac{3}{7} + 3\frac{2}{7} - 4\frac{1}{7} =$$

$$29. \frac{12}{4} - 3\frac{2}{4} + 1\frac{3}{4} =$$

$$30. 5\frac{4}{8} + 2\frac{1}{8} - \frac{6}{8} =$$

$$31. 4\frac{3}{5} + 2\frac{2}{5} - \frac{7}{5} =$$

$$32. 6\frac{2}{6} - \frac{4}{6} + \frac{3}{6} =$$

$$33. 2\frac{4}{10} - \frac{5}{10} + 3\frac{2}{10} + 1\frac{1}{10} =$$

$$34. 3\frac{3}{6} + \frac{4}{6} - 2\frac{5}{6} + 1\frac{2}{6} =$$

$$35. 4\frac{7}{9} + 1\frac{2}{9} - 3\frac{1}{9} + \frac{8}{9} =$$

$$36. 5\frac{2}{8} - 1\frac{3}{8} + \frac{4}{8} - \frac{6}{8} =$$

$$37. 6\frac{3}{5} + 2\frac{2}{5} - \frac{9}{5} + 1\frac{4}{5} =$$

$$38. 3\frac{2}{10} - \frac{6}{10} + 2\frac{4}{10} + 1\frac{3}{10} =$$

$$39. 2\frac{5}{6} + \frac{3}{6} - 1\frac{4}{6} + 4\frac{2}{6} =$$

$$40. 5\frac{6}{9} + 1\frac{3}{9} - 2\frac{4}{9} + \frac{7}{9} =$$

$$41. 6\frac{1}{8} - 2\frac{4}{8} + \frac{5}{8} - \frac{3}{8} =$$

$$42. 7\frac{2}{5} + 3\frac{1}{5} - \frac{8}{5} + 2\frac{4}{5} =$$

$$43. \frac{10}{7} - 2\frac{5}{7} + 3\frac{1}{7} - \frac{4}{7} + \frac{7}{7} =$$

$$44. 4\frac{1}{3} + 2\frac{2}{3} - \frac{8}{3} + 1\frac{4}{3} - \frac{3}{3} =$$

$$45. 5\frac{2}{4} + \frac{3}{4} - 2\frac{6}{4} + 1\frac{1}{4} - \frac{7}{4} =$$

$$46. 3\frac{4}{9} - 1\frac{2}{9} + \frac{5}{9} + 2\frac{7}{9} - \frac{6}{9} =$$

$$47. 6\frac{1}{8} + 4\frac{3}{8} - \frac{7}{8} + 1\frac{2}{8} - \frac{5}{8} =$$

$$48. \frac{11}{7} - 3\frac{4}{7} + 2\frac{2}{7} - \frac{5}{7} + \frac{6}{7} =$$

$$49. 5\frac{3}{3} + 2\frac{1}{3} - \frac{9}{3} + 1\frac{2}{3} - \frac{4}{3} =$$

$$50. 6\frac{2}{4} + \frac{4}{4} - 3\frac{1}{4} + 1\frac{5}{4} - \frac{7}{4} =$$

$$51. 4\frac{3}{9} - 2\frac{1}{9} + \frac{4}{9} + 3\frac{5}{9} - \frac{6}{9} =$$

$$52. 7\frac{2}{8} + 5\frac{4}{8} - \frac{8}{8} + 1\frac{3}{8} - \frac{6}{8} =$$

Sección 4: Suma de fracciones mixtas con diferente denominador

Resuelve las siguientes operaciones y expresa tu resultado tanto en fracción impropia como en fracción mixta.

1. $1 + \frac{1}{4}$
2. $3 + \frac{3}{5}$
3. $2 + \frac{7}{6}$
4. $4 + \frac{2}{3}$
5. $5 + \frac{4}{7}$
6. $7 - \frac{9}{4}$
7. $6 - \frac{2}{5}$
8. $9 - \frac{5}{6}$
9. $\frac{10}{3} - 4$
10. $3 - \frac{14}{5}$
11. $\frac{17}{4} - 5$
12. $5 + \frac{2}{7}$
13. $\frac{3}{5} + 7$
14. $4\frac{1}{3} + \frac{2}{5}$
15. $3\frac{2}{7} + \frac{5}{9}$
16. $2\frac{3}{4} + \frac{1}{2}$
17. $5\frac{3}{8} - \frac{1}{4}$
18. $6\frac{1}{3} - \frac{2}{5}$
19. $4\frac{2}{7} - \frac{5}{8}$
20. $3\frac{5}{6} + \frac{1}{4}$
21. $5\frac{2}{5} - 3\frac{1}{3}$
22. $4\frac{3}{7} - 2\frac{4}{9}$
23. $6\frac{1}{4} + 2\frac{1}{6}$
24. $7\frac{3}{8} + \frac{5}{9}$
25. $8\frac{2}{3} - 3\frac{4}{5}$
26. $9\frac{4}{7} - 1\frac{2}{9}$
27. $6\frac{3}{8} + \frac{2}{9} - \frac{1}{4}$
28. $7\frac{4}{5} - \frac{3}{7} + \frac{2}{6}$
29. $8\frac{2}{3} - \frac{4}{9} + \frac{3}{5}$
30. $9\frac{3}{4} + \frac{1}{6} - \frac{5}{8}$
31. $5\frac{1}{3} + 3\frac{2}{5} - \frac{7}{10}$
32. $2 + 1\frac{4}{7} - \frac{3}{14}$
33. $6\frac{5}{8} + \frac{3}{4} - 2\frac{1}{2}$
34. $3\frac{7}{9} - \frac{5}{18} + 2\frac{4}{9}$
35. $4\frac{2}{5} + 1\frac{3}{10} - \frac{7}{20}$
36. $7\frac{1}{2} - 3\frac{3}{4} + \frac{5}{8}$
37. $\frac{9}{10} + 5\frac{1}{2} - 2\frac{2}{5}$
38. $3\frac{3}{8} - \frac{1}{4} + 4\frac{5}{16}$
39. $2 + 3\frac{1}{7} - \frac{5}{14}$
40. $4\frac{7}{12} - 2\frac{1}{6} + 1\frac{5}{12}$
41. $3\frac{2}{5} + 2\frac{1}{7} - \frac{4}{35} + \frac{3}{10}$
42. $5 + 4\frac{5}{6} - \frac{7}{12} + 2\frac{1}{3}$
43. $4\frac{3}{8} + 1\frac{1}{2} - 3\frac{2}{5} + \frac{5}{16}$
44. $6\frac{11}{15} - 2\frac{4}{5} + \frac{1}{3} - 1\frac{7}{30}$
45. $3\frac{1}{6} + 5\frac{1}{3} - \frac{2}{9} + 2\frac{2}{9}$
46. $4\frac{2}{7} - 1\frac{3}{14} + \frac{9}{28} - 2\frac{1}{7}$
47. $5\frac{4}{9} + 3\frac{1}{18} - \frac{7}{18} + 2\frac{2}{3}$
48. $6\frac{3}{5} - \frac{11}{25} + 4\frac{2}{5} - 1\frac{4}{5}$
49. $7 + \frac{5}{6} + \frac{7}{12} - 3\frac{1}{4}$
50. $3\frac{3}{8} - 2\frac{5}{16} + 1\frac{1}{4} + \frac{3}{8}$
51. $5\frac{2}{7} - \frac{1}{3} + \frac{3}{5} - \frac{2}{8}$
52. $6\frac{3}{9} + \frac{4}{5} - \frac{1}{2} + \frac{2}{7}$
53. $7\frac{1}{2} + \frac{5}{6} - \frac{3}{4} + \frac{2}{3}$

Revisa la playlist de “El Club de la Matemática” en el link https://youtube.com/playlist?list=PL-SETmeZ3ceE9wmmoe1eP1n&si=eVx9iZyIfM_K5Dpi

Puedes consultar el número de capítulo en el link correspondiente a esta clase: <https://www.youtube.com/live/v2YLkptcnhs?si=WU1xs57LELmP1UWs>

También puedes solicitar asesorías de matemáticas o apoyar este proyecto en: <https://linktr.ee/mateducando>

Sección 1 (Respuestas)

Nota: Si encuentras algún error, repórtalo al correo: correcciones@mateducando.com

1. $\frac{3}{7} + \frac{2}{7} - \frac{6}{7} = \frac{-1}{7}$
2. $\frac{3}{6} + \frac{2}{6} - \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$
3. $\frac{4}{9} - \frac{5}{9} + \frac{2}{9} - \frac{4}{9} = \frac{-3}{9} = \frac{-1}{3}$
4. $\frac{5}{9} + \frac{2}{9} - \frac{7}{9} = \frac{0}{9} = 0$
5. $\frac{7}{10} - \frac{5}{10} + \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$
6. $\frac{2}{5} + \frac{1}{5} - \frac{7}{5} = \frac{-4}{5}$
7. $\frac{4}{9} - \frac{7}{9} + \frac{2}{9} = \frac{-1}{9}$
8. $\frac{5}{8} + \frac{1}{8} - \frac{8}{8} = \frac{-2}{8} = \frac{-1}{4}$
9. $\frac{9}{14} - \frac{7}{14} + \frac{1}{14} - \frac{4}{14} = \frac{-1}{14}$
10. $\frac{6}{10} - \frac{9}{10} + \frac{1}{10} = \frac{-2}{10} = \frac{-1}{5}$
11. $\frac{9}{14} + \frac{2}{14} - \frac{3}{14} = \frac{8}{14} = \frac{4}{7}$
12. $\frac{2}{9} - \frac{1}{9} + \frac{4}{9} = \frac{5}{9}$
13. $\frac{4}{7} + \frac{2}{7} - \frac{9}{7} = \frac{-3}{7}$
14. $\frac{6}{12} + \frac{2}{12} - \frac{3}{12} = \frac{5}{12}$
15. $\frac{8}{15} - \frac{9}{15} - \frac{3}{15} + \frac{4}{15} = \frac{-2}{15}$
16. $\frac{3}{8} + \frac{1}{8} - \frac{6}{8} = \frac{-2}{8} = \frac{-1}{4}$
17. $\frac{4}{7} + \frac{1}{7} - \frac{8}{7} = \frac{-3}{7}$
18. $\frac{5}{7} - \frac{3}{7} + \frac{2}{7} = \frac{4}{7}$
19. $\frac{6}{11} - \frac{5}{11} + \frac{2}{11} - \frac{3}{11} = \frac{0}{11} = 0$
20. $\frac{3}{7} - \frac{2}{7} + \frac{1}{7} - \frac{2}{7} = \frac{0}{7} = 0$
21. $\frac{7}{12} - \frac{2}{12} + \frac{5}{12} = \frac{10}{12} = \frac{5}{6}$
22. $\frac{4}{9} - \frac{5}{9} + \frac{2}{9} - \frac{4}{9} = \frac{-3}{9} = \frac{-1}{3}$
23. $\frac{9}{14} + \frac{3}{14} - \frac{7}{14} = \frac{5}{14}$
24. $\frac{8}{15} - \frac{7}{15} + \frac{2}{15} = \frac{3}{15} = \frac{1}{5}$
25. $\frac{6}{8} + \frac{1}{8} - \frac{10}{8} = \frac{-3}{8}$
26. $\frac{3}{5} + \frac{1}{5} - \frac{2}{5} = \frac{2}{5}$
27. $\frac{7}{10} - \frac{6}{10} + \frac{1}{10} - \frac{3}{10} = \frac{-1}{10}$
28. $\frac{5}{8} - \frac{4}{8} + \frac{3}{8} - \frac{4}{8} = \frac{0}{8} = 0$
29. $\frac{6}{12} + \frac{1}{12} - \frac{8}{12} + \frac{2}{12} = \frac{1}{12}$
30. $\frac{7}{12} - \frac{4}{12} + \frac{1}{12} = \frac{4}{12} = \frac{1}{3}$
31. $\frac{4}{10} + \frac{3}{10} - \frac{1}{10} = \frac{6}{10} = \frac{3}{5}$
32. $\frac{4}{7} + \frac{3}{7} - \frac{2}{7} = \frac{5}{7}$
33. $\frac{3}{8} - \frac{1}{8} + \frac{5}{8} = \frac{7}{8}$
34. $\frac{3}{7} + \frac{2}{7} - \frac{3}{7} = \frac{2}{7}$
35. $\frac{2}{5} + \frac{1}{5} - \frac{3}{5} + \frac{4}{5} = \frac{4}{5}$
36. $\frac{5}{12} + \frac{1}{12} - \frac{4}{12} + \frac{2}{12} = \frac{4}{12} = \frac{1}{3}$
37. $\frac{6}{10} - \frac{5}{10} + \frac{2}{10} = \frac{3}{10}$
38. $\frac{4}{7} + \frac{1}{7} - \frac{5}{7} = \frac{0}{7} = 0$
39. $\frac{5}{11} + \frac{3}{11} - \frac{2}{11} = \frac{6}{11}$
40. $\frac{9}{12} - \frac{3}{12} + \frac{2}{12} = \frac{8}{12} = \frac{2}{3}$

Sección 2 (Respuestas)

Nota: Si encuentras algún error, repórtalo al correo: correcciones@mateducando.com

1. $\frac{2}{3} + \frac{1}{5} = \frac{13}{15}$
2. $\frac{3}{4} - \frac{2}{7} = \frac{13}{28}$
3. $\frac{5}{6} + \frac{3}{8} = \frac{53}{24} = 2\frac{5}{24}$
4. $\frac{3}{4} + \frac{1}{2} = \frac{5}{4} = 1\frac{1}{4}$
5. $\frac{7}{10} - \frac{1}{4} = \frac{9}{20}$
6. $\frac{2}{3} + \frac{5}{6} = \frac{3}{2} = 1\frac{1}{2}$
7. $\frac{20}{15} - \frac{3}{5} = \frac{1}{3}$
8. $\frac{9}{12} + \frac{2}{9} = \frac{41}{36} = 1\frac{5}{36}$
9. $\frac{1}{4} + \frac{17}{20} = \frac{11}{10} = 1\frac{1}{10}$
10. $\frac{4}{5} - \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$
11. $\frac{8}{15} + \frac{5}{12} = \frac{61}{60} = 1\frac{1}{60}$
12. $\frac{75}{100} - \frac{22}{25} = \frac{1}{20}$
13. $\frac{7}{9} - \frac{2}{5} = \frac{11}{45}$
14. $-\frac{13}{60} + \frac{12}{15} = \frac{3}{4}$
15. $-\frac{6}{21} - \frac{2}{3} = -1$
16. $\frac{3}{8} + \frac{7}{10} = \frac{83}{40} = 2\frac{3}{40}$
17. $\frac{5}{7} - \frac{1}{6} = \frac{23}{42}$
18. $\frac{2}{3} - \frac{1}{5} + \frac{1}{7} = \frac{34}{105}$
19. $\frac{4}{9} + \frac{2}{11} - \frac{1}{3} = \frac{1}{99}$
20. $\frac{7}{10} - \frac{3}{8} + \frac{1}{4} = \frac{29}{40}$
21. $\frac{7}{4} + \frac{3}{4} + \frac{5}{8} = \frac{27}{8} = 3\frac{3}{8}$
22. $\frac{5}{6} + \frac{1}{5} - \frac{3}{9} = \frac{49}{45} = 1\frac{4}{45}$
23. $\frac{5}{12} + \frac{3}{12} + \frac{2}{3} = 1$
24. $\frac{4}{5} + \frac{16}{30} + \frac{7}{15} = 1$
25. $\frac{8}{15} - \frac{4}{11} + \frac{2}{9} = \frac{139}{495}$
26. $\frac{3}{4} + \frac{1}{5} - \frac{2}{7} = \frac{89}{140}$
27. $\frac{2}{7} + \frac{15}{28} + \frac{8}{14} = 1$
28. $\frac{5}{8} + \frac{7}{2} - \frac{53}{16} = 0$
29. $\frac{9}{12} - \frac{5}{6} + \frac{1}{3} = 0$
30. $\frac{7}{8} - \frac{3}{10} + \frac{2}{5} = \frac{81}{80} = 1\frac{1}{80}$
31. $\frac{4}{7} + \frac{1}{3} - \frac{1}{2} = \frac{1}{42}$
32. $\frac{4}{6} - \frac{23}{18} + \frac{7}{2} = \frac{5}{6}$
33. $-\frac{17}{30} + \frac{9}{10} + \frac{77}{60} = \frac{29}{20} = 1\frac{9}{20}$
34. $\frac{6}{9} - \frac{2}{7} + \frac{1}{4} = \frac{89}{252}$
35. $\frac{5}{8} + \frac{3}{10} - \frac{2}{11} = \frac{361}{440}$
36. $\frac{2}{3} + \frac{1}{5} - \frac{1}{6} = \frac{19}{30}$
37. $\frac{3}{4} + \frac{13}{20} + \frac{5}{8} = \frac{49}{20} = 2\frac{9}{20}$
38. $\frac{3}{4} - \frac{2}{7} + \frac{1}{9} = \frac{65}{252}$
39. $\frac{5}{6} + \frac{3}{8} - \frac{1}{4} = \frac{53}{24} = 2\frac{5}{24}$
40. $\frac{10}{12} + \frac{7}{6} + \frac{27}{30} = \frac{35}{12} = 2\frac{11}{12}$
41. $-\frac{10}{15} + \frac{28}{45} - \frac{13}{30} = -\frac{7}{30}$
42. $\frac{7}{10} - \frac{1}{4} + \frac{3}{5} = \frac{21}{20} = 1\frac{1}{20}$
43. $\frac{9}{12} + \frac{2}{9} - \frac{1}{3} = \frac{41}{36} = 1\frac{5}{36}$
44. $\frac{13}{21} + \frac{5}{7} + \frac{24}{35} = 2$
45. $\frac{50}{80} - \frac{15}{20} - \frac{15}{10} = -1$
46. $\frac{4}{5} - \frac{3}{10} + \frac{2}{15} = \frac{11}{15}$
47. $\frac{8}{15} + \frac{5}{12} - \frac{1}{6} = \frac{61}{60} = 1\frac{1}{60}$
48. $\frac{9}{8} + \frac{13}{12} + \frac{13}{24} = \frac{83}{24} = 3\frac{11}{24}$
49. $\frac{7}{9} - \frac{2}{5} + \frac{1}{4} = \frac{103}{180}$
50. $\frac{3}{8} + \frac{7}{10} - \frac{2}{15} = \frac{263}{240} = 1\frac{23}{240}$
51. $-\frac{14}{21} - \frac{10}{9} + \frac{5}{18} = -\frac{83}{126} = -\frac{5}{6}$
52. $\frac{5}{7} - \frac{1}{6} + \frac{2}{9} = \frac{23}{42}$
53. $\frac{2}{3} - \frac{1}{4} + \frac{1}{5} - \frac{1}{6} = \frac{17}{60}$
54. $\frac{3}{4} + \frac{2}{9} - \frac{1}{8} + \frac{1}{7} = \frac{281}{504}$
55. $\frac{5}{6} + \frac{8}{30} + \frac{12}{15} + \frac{4}{5} = \frac{17}{6} = 2\frac{5}{6}$
56. $\frac{3}{7} + \frac{12}{28} + \frac{4}{3} + \frac{5}{4} = \frac{247}{84} = 2\frac{79}{84}$
57. $\frac{5}{6} - \frac{2}{7} + \frac{3}{10} - \frac{1}{5} = \frac{143}{210}$
58. $\frac{7}{10} + \frac{1}{12} - \frac{2}{9} + \frac{1}{4} = \frac{221}{180} = 1\frac{41}{180}$
59. $\frac{10}{22} + \frac{3}{2} + \frac{40}{66} + \frac{5}{3} = \frac{137}{66} = 2\frac{5}{66}$
60. $-\frac{4}{36} + \frac{1}{8} - \frac{1}{5} + \frac{3}{40} = \frac{97}{720}$
61. $\frac{9}{11} - \frac{1}{3} + \frac{2}{5} - \frac{1}{2} = \frac{7}{165}$
62. $\frac{8}{6} - \frac{50}{21} - \frac{25}{42} + \frac{3}{7} = -\frac{5}{14}$
63. $\frac{4}{9} + \frac{3}{8} - \frac{1}{6} + \frac{2}{7} = \frac{2119}{3024}$

$$64. -\frac{13}{20} - \frac{2}{5} + \frac{9}{8} - \frac{10}{16} = \frac{1}{20}$$

$$65. \frac{5}{10} + \frac{3}{8} + \frac{9}{16} + \frac{7}{32} = \frac{131}{80} = 1\frac{51}{80}$$

$$66. \frac{8}{15} - \frac{1}{5} + \frac{3}{14} - \frac{2}{9} = \frac{103}{630}$$

$$67. \frac{7}{12} + \frac{2}{9} - \frac{5}{8} + \frac{1}{4} = \frac{55}{144}$$

$$68. \frac{10}{32} - \frac{3}{4} - \frac{5}{8} + \frac{17}{64} = -\frac{15}{64}$$

$$69. \frac{3}{10} - \frac{2}{11} + \frac{4}{15} - \frac{1}{9} = \frac{173}{990}$$

$$70. \frac{5}{7} + \frac{1}{6} - \frac{2}{5} + \frac{1}{8} = \frac{863}{1680}$$

Sección 3 (Respuestas)

Nota: Las respuestas fueron obtenidas con ChatGPT, de igual manera ya tuvieron una revisión superficial. si encuentras algún error, repórtalo al correo: correcciones@mateducando.com

$$1. 1 + \frac{1}{4} = 1\frac{1}{4} = \frac{5}{4}$$

$$2. 3 + \frac{3}{2} = 4\frac{1}{2} = \frac{9}{2}$$

$$3. 2 + \frac{7}{5} = 2\frac{7}{5} = \frac{17}{5}$$

$$4. 4 + \frac{4}{3} = 5\frac{1}{3} = \frac{16}{3}$$

$$5. 7 + \frac{5}{2} = 9\frac{1}{2} = \frac{19}{2}$$

$$6. 5 - \frac{13}{4} = 1\frac{3}{4} = \frac{7}{4}$$

$$7. 4 - \frac{10}{3} = \frac{2}{3}$$

$$8. 7 - \frac{21}{2} = -3\frac{1}{2} = -\frac{7}{2}$$

$$9. \frac{10}{3} - 4 = -\frac{2}{3}$$

$$10. 3 - \frac{21}{5} = -1\frac{6}{5} = -\frac{11}{5}$$

$$11. \frac{23}{4} - 5 = \frac{3}{4}$$

$$12. 7 + \frac{3}{5} = 7\frac{3}{5} = \frac{38}{5}$$

$$13. \frac{2}{7} + 10 = 10\frac{2}{7} = \frac{72}{7}$$

$$14. 3\frac{1}{3} + \frac{1}{3} = 3\frac{2}{3} = \frac{11}{3}$$

$$15. 4\frac{1}{5} + \frac{2}{5} = 4\frac{3}{5} = \frac{23}{5}$$

$$16. 3\frac{10}{17} + \frac{4}{17} = 3\frac{14}{17} = \frac{65}{17}$$

$$17. 5\frac{15}{21} - \frac{10}{21} = 5\frac{5}{21} = \frac{110}{21}$$

$$18. \frac{2}{7} - 4\frac{5}{7} = -4\frac{3}{7} = -\frac{31}{7}$$

$$19. \frac{13}{21} - 7\frac{17}{21} = -7\frac{4}{21} = -\frac{151}{21}$$

$$20. 5\frac{1}{5} + 3\frac{2}{5} = 8\frac{3}{5} = \frac{43}{5}$$

$$21. 7\frac{3}{8} + 4\frac{2}{8} = 11\frac{5}{8} = \frac{93}{8}$$

$$22. 2\frac{5}{13} + 4\frac{7}{13} = 6\frac{12}{13} = \frac{90}{13}$$

$$23. 3\frac{2}{7} + 4\frac{1}{7} - 2\frac{5}{7} = 4\frac{6}{7} = \frac{34}{7}$$

$$24. \frac{10}{4} - 2\frac{3}{4} + 1\frac{1}{4} = \frac{5}{4}$$

$$25. 5\frac{3}{8} + 2\frac{2}{8} - \frac{9}{8} = 6\frac{4}{8} = \frac{52}{8} = \frac{13}{2}$$

$$26. 4\frac{2}{5} + 3\frac{3}{5} - \frac{8}{5} = 6\frac{2}{5} = \frac{32}{5}$$

$$27. 6\frac{1}{6} - \frac{7}{6} + \frac{4}{6} = 5\frac{4}{6} = \frac{34}{6} = \frac{17}{3}$$

$$28. 7\frac{3}{7} + 3\frac{2}{7} - 4\frac{1}{7} = 6\frac{4}{7} = \frac{46}{7}$$

$$29. \frac{12}{4} - 3\frac{2}{4} + 1\frac{3}{4} = \frac{5}{4}$$

$$30. 5\frac{4}{8} + 2\frac{1}{8} - \frac{6}{8} = 7\frac{7}{8} = \frac{63}{8}$$

$$31. 4\frac{3}{5} + 2\frac{2}{5} - \frac{7}{5} = 5\frac{3}{5} = \frac{28}{5}$$

$$32. 6\frac{2}{6} - \frac{4}{6} + \frac{3}{6} = 6\frac{1}{6} = \frac{37}{6}$$

$$33. 2\frac{4}{10} - \frac{5}{10} + 3\frac{2}{10} + 1\frac{1}{10} = 6\frac{1}{10} = \frac{61}{10}$$

$$34. 3\frac{3}{6} + \frac{4}{6} - 2\frac{5}{6} + 1\frac{2}{6} = 2 = \frac{12}{6}$$

$$35. 4\frac{7}{9} + 1\frac{2}{9} - 3\frac{1}{9} + \frac{8}{9} = 3\frac{16}{9} = \frac{43}{9}$$

$$36. 5\frac{2}{8} - 1\frac{3}{8} + \frac{4}{8} - \frac{6}{8} = 3 = \frac{24}{8}$$

$$37. 6\frac{3}{5} + 2\frac{2}{5} - \frac{9}{5} + 1\frac{4}{5} = 10 = \frac{50}{5}$$

$$38. 3\frac{2}{10} - \frac{6}{10} + 2\frac{4}{10} + 1\frac{3}{10} = 6\frac{3}{10} = \frac{63}{10}$$

$$39. 2\frac{5}{6} + \frac{3}{6} - 1\frac{4}{6} + 4\frac{2}{6} = 5\frac{2}{6} = \frac{32}{6} = \frac{16}{3}$$

$$40. 5\frac{6}{9} + 1\frac{3}{9} - 2\frac{4}{9} + \frac{7}{9} = 4\frac{4}{9} = \frac{40}{9}$$

$$41. 6\frac{1}{8} - 2\frac{4}{8} + \frac{5}{8} - \frac{3}{8} = 3\frac{7}{8} = \frac{31}{8}$$

$$42. 7\frac{2}{5} + 3\frac{1}{5} - \frac{8}{5} + 2\frac{4}{5} = 12 = \frac{60}{5}$$

$$43. \frac{10}{7} - 2\frac{5}{7} + 3\frac{1}{7} - \frac{4}{7} + \frac{7}{7} = 1$$

$$44. 4\frac{1}{3} + 2\frac{2}{3} - \frac{8}{3} + 1\frac{4}{3} - \frac{3}{3} = 0$$

$$45. 5\frac{2}{4} + \frac{3}{4} - 2\frac{6}{4} + 1\frac{1}{4} - \frac{7}{4} = 2$$

$$46. 3\frac{4}{9} - 1\frac{2}{9} + \frac{5}{9} + 2\frac{7}{9} - \frac{6}{9} = 4\frac{8}{9} = \frac{44}{9}$$

$$47. 6\frac{1}{8} + 4\frac{3}{8} - \frac{7}{8} + 1\frac{2}{8} - \frac{5}{8} = 11\frac{4}{8} = \frac{92}{8} = \frac{23}{2}$$

$$48. \frac{11}{7} - 3\frac{4}{7} + 2\frac{2}{7} - \frac{5}{7} + \frac{6}{7} = 0$$

$$49. 5\frac{3}{3} + 2\frac{1}{3} - \frac{9}{3} + 1\frac{2}{3} - \frac{4}{3} = 4\frac{2}{3} = \frac{14}{3}$$

$$50. 6\frac{2}{4} + \frac{4}{4} - 3\frac{1}{4} + 1\frac{5}{4} - \frac{7}{4} = 5$$

$$51. 4\frac{3}{9} - 2\frac{1}{9} + \frac{4}{9} + 3\frac{5}{9} - \frac{6}{9} = 5\frac{5}{9} = \frac{50}{9}$$

$$52. 7\frac{2}{8} + 5\frac{4}{8} - \frac{8}{8} + 1\frac{3}{8} - \frac{6}{8} = 13\frac{1}{8} = \frac{105}{8}$$

Sección 4 (Respuestas)

Nota: Si encuentras algún error, repórtalo al correo: correcciones@mateducando.com

1. $1 + \frac{1}{4} = 1\frac{1}{4} = \frac{5}{4}$
2. $3 + \frac{3}{5} = 3\frac{3}{5} = \frac{18}{5}$
3. $2 + \frac{7}{6} = 3\frac{1}{6} = \frac{19}{6}$
4. $4 + \frac{2}{3} = 4\frac{2}{3} = \frac{14}{3}$
5. $5 + \frac{4}{7} = 5\frac{4}{7} = \frac{39}{7}$
6. $7 - \frac{9}{4} = 4\frac{3}{4} = \frac{19}{4}$
7. $6 - \frac{2}{5} = 5\frac{3}{5} = \frac{28}{5}$
8. $9 - \frac{5}{6} = 8\frac{1}{6} = \frac{49}{6}$
9. $\frac{10}{3} - 4 = \frac{2}{3}$
10. $3 - \frac{14}{5} = -\frac{1}{5}$
11. $\frac{17}{4} - 5 = \frac{3}{4}$
12. $5 + \frac{2}{7} = 5\frac{2}{7} = \frac{37}{7}$
13. $\frac{3}{5} + 7 = 7\frac{3}{5} = \frac{38}{5}$
14. $4\frac{1}{3} + \frac{2}{5} = 4\frac{11}{15} = \frac{71}{15}$
15. $3\frac{2}{7} + \frac{5}{9} = 3\frac{41}{63} = \frac{220}{63}$
16. $2\frac{3}{4} + \frac{1}{2} = 3\frac{1}{4} = \frac{13}{4}$
17. $5\frac{3}{8} - \frac{1}{4} = 5\frac{1}{8} = \frac{41}{8}$
18. $6\frac{1}{3} - \frac{2}{5} = 5\frac{14}{15} = \frac{89}{15}$
19. $4\frac{2}{7} - \frac{5}{8} = 3\frac{21}{56} = \frac{197}{56}$
20. $3\frac{5}{6} + \frac{1}{4} = 4\frac{7}{12} = \frac{55}{12}$
21. $5\frac{2}{5} - 3\frac{1}{3} = 2\frac{1}{15} = \frac{31}{15}$
22. $4\frac{3}{7} - 2\frac{4}{9} = 2\frac{17}{63} = \frac{133}{63}$
23. $6\frac{1}{4} + 2\frac{1}{6} = 8\frac{5}{12} = \frac{101}{12}$
24. $7\frac{3}{8} + \frac{5}{9} = 8\frac{59}{72} = \frac{635}{72}$
25. $8\frac{2}{3} - 3\frac{4}{5} = 5\frac{7}{15} = \frac{82}{15}$
26. $9\frac{4}{7} - 1\frac{2}{9} = 8\frac{31}{63} = \frac{535}{63}$
27. $6\frac{3}{8} + \frac{2}{9} - \frac{1}{4} = 6\frac{55}{72} = \frac{487}{72}$
28. $7\frac{4}{5} - \frac{3}{7} + \frac{2}{6} = 7\frac{29}{42} = \frac{323}{42}$
29. $8\frac{2}{3} - \frac{4}{9} + \frac{3}{5} = 9\frac{8}{45} = \frac{413}{45}$
30. $9\frac{3}{4} + \frac{1}{6} - \frac{5}{8} = 9\frac{11}{24} = \frac{227}{24}$
31. $5\frac{1}{3} + 3\frac{2}{5} - \frac{7}{10} = 8\frac{4}{15} = \frac{124}{15}$
32. $2 + 1\frac{4}{7} - \frac{3}{14} = 3\frac{11}{14} = \frac{53}{14}$
33. $6\frac{5}{8} + \frac{3}{4} - 2\frac{1}{2} = 4\frac{7}{8} = \frac{39}{8}$
34. $3\frac{7}{9} - \frac{5}{18} + 2\frac{4}{9} = 5\frac{10}{18} = \frac{100}{18} = \frac{50}{9}$
35. $4\frac{2}{3} + 1\frac{3}{10} - \frac{7}{20} = 5\frac{15}{20} = \frac{115}{20} = \frac{23}{4}$
36. $7\frac{1}{2} - 3\frac{3}{4} + \frac{5}{8} = 4\frac{3}{8} = \frac{35}{8}$
37. $\frac{9}{10} + 5\frac{1}{2} - 2\frac{2}{5} = 3\frac{16}{20} = \frac{76}{20} = \frac{19}{5}$
38. $3\frac{3}{8} - \frac{1}{4} + 4\frac{5}{16} = 7\frac{15}{16} = \frac{127}{16}$
39. $2 + 3\frac{1}{7} - \frac{5}{14} = 4\frac{3}{14} = \frac{59}{14}$
40. $4\frac{7}{12} - 2\frac{1}{6} + 1\frac{5}{12} = 3\frac{19}{24} = \frac{91}{24}$
41. $3\frac{2}{5} + 2\frac{1}{7} - \frac{4}{35} + \frac{3}{10} = 5\frac{11}{14} = \frac{81}{14}$
42. $5 + 4\frac{5}{6} - \frac{7}{12} + 2\frac{1}{3} = 11\frac{1}{4} = \frac{45}{4}$
43. $4\frac{3}{8} + 1\frac{1}{2} - 3\frac{2}{5} + \frac{5}{16} = 2\frac{51}{80} = \frac{211}{80}$
44. $6\frac{11}{15} - 2\frac{4}{5} + \frac{1}{3} - 1\frac{7}{30} = 3\frac{47}{90} = \frac{317}{90}$
45. $3\frac{1}{6} + 5\frac{1}{3} - \frac{2}{9} + 2\frac{2}{9} = 10\frac{1}{6} = \frac{61}{6}$
46. $4\frac{2}{7} - 1\frac{3}{14} + \frac{9}{28} - 2\frac{1}{7} = \frac{9}{28}$
47. $5\frac{4}{9} + 3\frac{1}{18} - \frac{7}{18} + 2\frac{2}{3} = 11\frac{4}{9} = \frac{103}{9}$
48. $6\frac{3}{5} - \frac{11}{25} + 4\frac{2}{5} - 1\frac{4}{5} = 9\frac{2}{25} = \frac{227}{25}$
49. $7 + \frac{5}{6} + \frac{7}{12} - 3\frac{1}{4} = 4\frac{11}{12} = \frac{59}{12}$
50. $3\frac{3}{8} - 2\frac{5}{16} + 1\frac{1}{4} + \frac{3}{8} = 2\frac{19}{32} = \frac{83}{32}$
51. $5\frac{2}{7} - \frac{1}{3} + \frac{3}{5} - \frac{2}{8} = 5\frac{71}{168} = \frac{911}{168}$
52. $6\frac{3}{9} + \frac{4}{5} - \frac{1}{2} + \frac{2}{7} = 7\frac{13}{70} = \frac{493}{70}$
53. $7\frac{1}{2} + \frac{5}{6} - \frac{3}{4} + \frac{2}{3} = 8\frac{7}{12} = \frac{103}{12}$

Revisa la playlist de “El Club de la Matemática” en el link https://youtube.com/playlist?list=PL-SETmeZ3ceE9wmmoe1eP1n&si=eVx9iZyIfM_K5Dpi

Puedes consultar el número de capítulo en el link correspondiente a esta clase: <https://www.youtube.com/live/v2YLkptcnhs?si=WU1xs57LELmP1UWs>

También puedes solicitar asesorías de matemáticas o apoyar este proyecto en: <https://linktr.ee/mateducando>