



Capacidad: Razonamiento lógico

Objetivo: Calcular operaciones aritméticas básicas , usando propiedades de los conjuntos numéricos respectivos

Contenidos: Operatoria aritmética

GUIA DE OPERATORIA ARITMÉTICA

Calcular en cada caso, usando propiedades de conjuntos numéricos

1. $-2 \cdot \{ -5 - (-4 - 1) \cdot (-3) + 1 - (-2 - 3) \cdot (-3 - 1) \} =$

78

2. $-5 + 3 \cdot \{ -2 \cdot (-1 + 5) - (-3) \cdot (-2) + 1 \} + 7 \cdot (-3) - 2 =$

- 67

3. $10 - 5 \cdot (-2) + (-5)(-1)(-2) - (-3 - (-2)) + 5 =$

16

4. $-5 - 2[- \{ -(4 - 7) + 15 \} - 20] - 7 - 4 \cdot (-7 + 15) =$

32

5. $(-2) \cdot 5 - 4 \cdot [- \{ -3 - 4(2 - 7) \} + 5 \{ -4 - 7(-15 + 16) \}] =$

278

6. $2 - 7 \cdot \{ -2[4 \cdot (-3) + (-5)(-3)] - 18(-3) \} =$

- 334

7. $\frac{1}{9} + \frac{1}{15} - \frac{1}{6} + \frac{1}{30} =$

$\frac{2}{45}$

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

$\frac{53}{8}$

9. $80 - 3\frac{3}{5} - 4\frac{3}{10} =$

$72\frac{1}{10}$

10. $6\frac{3}{4} - \left(2\frac{1}{9} - \frac{1}{18} + 1 \right) =$

$3\frac{25}{36}$



$$11. \quad \left(\frac{7}{30} - \frac{1}{60} + \frac{1}{4} \right) + \left(\frac{5}{3} + \frac{7}{5} - \frac{1}{20} \right) =$$

$$3\frac{29}{60}$$

$$12. \quad \left(1\frac{1}{2} : \frac{5}{8} \right) - \left(3\frac{4}{5} \cdot \frac{2}{19} \right) =$$

$$2$$

$$13. \quad \left(3\frac{4}{5} + 5\frac{1}{9} - \frac{1}{45} \right) \cdot \left(4\frac{1}{5} - 3\frac{1}{4} \right) =$$

$$8\frac{4}{9}$$

$$14. \quad \left(4\frac{4}{7} \cdot \frac{21}{160} \right) : \left(2\frac{5}{6} \cdot \frac{15}{34} \right) =$$

$$\frac{12}{25}$$

$$15. \quad 1\frac{5}{8} + \frac{\frac{7}{2} - \frac{1}{4}}{\frac{7}{8} + \frac{3}{4}} - \frac{5}{8} =$$

$$3$$

$$16. \quad \left(\frac{1}{2} + \frac{2}{3} \right) \cdot \left(\frac{3}{4} + \frac{4}{5} \right) + \frac{5}{6} \cdot \left(\frac{1}{8} + \frac{1}{10} \right) + \left[\frac{1\frac{1}{2}}{22\frac{1}{2}} : \frac{21\frac{1}{3}}{1\frac{11}{3}} \right] =$$

$$\frac{193}{96}$$

$$17. \quad \left\{ \left(\frac{5}{8} + \frac{3}{4} + \frac{1}{2} \right) - \left(\frac{1}{2} \cdot \frac{3}{8} \cdot \frac{5}{6} \right) \right\} : \left(\frac{1}{2} \cdot \frac{3}{5} \right) =$$

$$5\frac{35}{48}$$

$$18. \quad \left[\frac{4\frac{1}{2} - 1\frac{7}{8}}{2\frac{1}{3} \cdot 3\frac{1}{2}} \right] =$$

$$\frac{9}{28}$$

$$19. \quad \frac{\frac{2}{3} + \frac{3}{5}}{\frac{2}{3} - \frac{3}{5}} \cdot \frac{1\frac{1}{2} - \frac{2}{5}}{1\frac{1}{2} + \frac{2}{5}} =$$

$$11$$

$$20. \quad \frac{\frac{3}{4} \cdot \frac{7}{8}}{2\frac{1}{3} \cdot \frac{7}{9}} : \frac{\frac{1}{8} : \frac{2}{3}}{\frac{7}{20} \cdot \frac{25}{21}} =$$

$$\frac{45}{56}$$



$$21. \frac{3\frac{1}{2} + 3\frac{1}{3}}{3\frac{5}{12}} : \frac{7\frac{7}{8} \text{ g } \frac{4}{7}}{4\frac{1}{5} - 3\frac{7}{10}} =$$

2

$$22. 5\frac{3}{8} + \frac{5\frac{7}{8}}{9\frac{2}{5}} \text{ g } \frac{5\frac{1}{8} - 3\frac{1}{3}}{14\frac{11}{18} + 3\frac{1}{2} - 15\frac{1}{8}} =$$

$\frac{23}{4}$

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

$\frac{55}{63}$

$$24. \frac{2}{3} \text{ g } \left\{ \frac{2}{3} \text{ g } \frac{2\frac{1}{4} + 1\frac{1}{2}}{3\frac{1}{2} - 1} + \frac{1}{2} \right\} =$$

1

$$25. \left\{ \frac{1}{2 - \frac{3}{4 - \frac{5}{6}}} - \frac{1}{2 + \frac{3}{4 + \frac{5}{6}}} \right\} \text{ g } 10\frac{5}{9} =$$

6

$$26. \left\{ 2\frac{3}{4} + 2\frac{1}{2} \cdot \frac{7}{3\frac{4}{5}} - \frac{1\frac{2}{3}}{2\frac{1}{2}} \right\} : 1\frac{77}{228} =$$

5

$$27. \frac{2}{3 + \frac{2}{3 + \frac{2}{3 + \frac{2}{3}}}} : \frac{139}{14850000} =$$

60000