604 **FACCIO UN ESEMPIO** Scrivi, se possibile, una potenza con:

a. la base positiva e il risultato positivo; [Esponente qualsiasi]

b. la base positiva e il risultato negativo; [Impossibile]

c. la base negativa e il risultato positivo; [Esponente pari]

d. la base negativa e il risultato negativo; [Esponente dispari]

e. la base negativa e il risultato uguale a +1. [Esponente 0]

605 Scrivi i numeri mancanti.

a. $(-2)^{\ldots\ldots} = +16$

b. $\ldots\ldots^{5} = 0$

c. $(\ldots\ldots)^3 = -1$

d. $(-8)^{\ldots\ldots} = +1$

e. $(+5)^{\ldots\ldots} = +25$

f. $(\ldots\ldots)^3 = +27$

g. $(\ldots\ldots)^2 = +9$

h. $(-10)^{\ldots\ldots} = -100\,000$

606 Scrivi gli esponenti mancanti.

a. $+16 = (-4)^{\ldots\ldots}$

b. $-27 = (-3)^{\ldots\ldots}$

c. $+1 = (-4)^{\ldots\ldots}$

d. $-\frac{1}{8} = \left(-\frac{1}{2}\right)^{\ldots\ldots}$

607 Esprimi ogni numero come potenza di un numero relativo a tuo piacere. C'è un solo modo per farlo?

a. -32 b. $+64$ c. -1 d. $+\frac{1}{4}$

[a. $(-2)^5$; b. $(\pm 2)^6$, $(+4)^3$, $(\pm 8)^2$; c. $(-1)^n$, n dispari; d. $\left(\pm\frac{1}{2}\right)^2$]

608 **CALCOLO E STIMO** Senza fare calcoli completa con $>$, $<$ o $=$.

a. $\left(-\frac{7}{5}\right)^3 \ldots\ldots 0$ $\quad (-18)^5 \ldots\ldots (-18)^2$

b. $(-6)^{10} \ldots\ldots 0$ $\quad (+20)^0 \ldots\ldots (-6)^5$

c. $\left(-\frac{1}{3}\right)^8 \ldots\ldots \left(+\frac{1}{3}\right)^8$ $\quad (+100)^5 \ldots\ldots (+100)^3$

Calcola il valore delle espressioni con le potenze.

609 GIÀ SVOLTO

a. $-(-10)^2$ b. $-6-(-2)^3$

Quando devi svolgere delle espressioni con potenze di numeri relativi, calcola sempre prima le potenze, facendo molta attenzione ai segni. In particolare, cerca di non confondere il segno della potenza con l'eventuale segno presente fuori dalla parentesi.

a. $-(-10)^2 = -(+100) = -100$

b. $-6-(-2)^3 = -6-(-8) = -6+8 = +2$

610 a. $-(-4)^2$ b. $-(-3)^3$ c. $-(+5)^2$ d. $-(-1)^5$ [a. -16; b. $+27$; c. -25; d. $+1$]

611 a. $-1-(-2)^3$ b. $5-(+4)^2$ c. $-(-3)^3+(-2)^2$ d. $(-2)^3-(-3)^2$ [a. $+7$; b. -11; c. $+31$; d. -17]

612 a. $-(5-7)^2$ b. $(+4)^2-(-3)^2$ c. $2+(-4+2)^3$ d. $(-8)^2-6\cdot 9$ [a. -4; b. $+7$; c. -6; d. $+10$]

613 **VERIFICO E CONTROLLO** Completa lo svolgimento delle espressioni. Se il risultato non coincide con quello indicato, ripercorri tutto il procedimento, individua gli errori e correggili.

a. $(-2)^4 : (-8) + 5 - 6 \cdot (-2) =$

$= (\ldots\ldots) : (-8) + 5 - (\ldots\ldots) =$

$= \ldots\ldots + 5 \ldots\ldots = \ldots\ldots$ [+15]

b. $(-1)^3 - (-6)^2 + (-5) \cdot (-6) =$

$= \ldots\ldots - (\ldots\ldots) + (\ldots\ldots) =$

$= \ldots\ldots = \ldots\ldots$ [−7]

Calcola il valore delle espressioni con le potenze.

614 $-2\cdot(+3)^2+(-2)^4$ [−2]

615 $(-5)^2\cdot(-2)^1 : (+10) - (-2)^5 - (+5)^2$ [+2]

616 $(+1)^{10} - (-1)^9 + (-2)^2\cdot(-5) + (-3)^2$ [−9]

617 $4^2 + [(-10)^2 : 5^2 - (2^2\cdot 3 - 3^2)^2 + 1]^2 : (7^2 - 6^2 - 3^2)^2 - 5^2 + 1$ [−7]

618 $\frac{1}{5}\cdot\left(\frac{1}{8}-\frac{3}{4}\right) : \left(-\frac{1}{4}\right)^2 - (-2)^2\cdot\left(1-\frac{1}{2}\right)^3\cdot\left(\frac{1}{7}+\frac{2}{3}\right)^0 - \frac{1}{2}$ [−3]

619 $\left(\frac{3}{4}+1\right)^3 : \left[\left(2-\frac{1}{8}\right)\cdot\left(\frac{4}{3}-\frac{2}{5}\right)\right] - 1 - \frac{1}{16}$ [+2]

620 $\left(\frac{1}{8}-\frac{3}{4}\right)\cdot\frac{4}{5} : \left(-\frac{1}{2}\right)^2 - \left(1-\frac{1}{2}\right)^3 : \left(-\frac{1}{2}\right)^2 + \frac{1}{2}$ [−2]

621 $(-1)^5 + \left(\frac{8}{5}+\frac{1}{7}\right)^0 + \left[\left(1+\frac{1}{4}\right) + \left(\frac{12}{5}+\frac{3}{2}-\frac{7}{10}\right) : \left(-\frac{4}{5}\right)\right] : \left(\frac{3}{4}+2\right) - \frac{1}{2}$ $\left[-\frac{3}{2}\right]$

622 $\left[\left(-\frac{2}{5}+\frac{7}{10}-\frac{4}{5}\right)^2 - \left(-\frac{5}{2}+\frac{3}{4}+2\right)^3\right]\cdot\left(\frac{4}{15}+\frac{1}{5}-\frac{1}{3}\right) - \left(\frac{13}{6}+\frac{1}{4}-1-\frac{7}{6}\right)^2 + \left(\frac{1}{2}\right)^5$ [0]

352 $-(-6)+(+8)\cdot(-2)-10+(-14)\cdot(-2)$ [+8]

353 $(-7+4)\cdot(-8)+(+5)\cdot(-4)-7-11+(+10)\cdot(+2)$ [+6]

354 $18-(-9)-(+6)\cdot(+4)+(+2)\cdot(-3)+6-13$ [−10]

355 $7-10+(-6+7)\cdot(-3)\cdot(-8)+(-7)\cdot(+2)$ [+7]

356 $(1+3-6)\cdot(4-5+6)+(-4+3)+(-8)\cdot(-3)$ [+13]

357 $(2-5)\cdot(3+4-8+1)+(+6)\cdot(-5)-10+7-(-4)\cdot(+8)$ [−1]

358 $(-11-1)\cdot(-2)+(-6-7+11)\cdot(15-12)-(-6-10)-25$ [+9]

359 $-(-7-8)+(+12)-(-8)\cdot(12-15+2)+(3+12-10)\cdot(18-17-6)$ [−6]

360 $(-6+2+2)\cdot(-10+8)\cdot(-10+9)+7-12-(+2+3)\cdot(-11+8)$ [+6]

361 $13-9-(-12+15)\cdot(-1+7-5)\cdot(24-21-5)+(-7)\cdot(+2)$ [−4]

362 $-16-4+(+8-4)\cdot(12-8+1)-(-19)-(-5-1)\cdot(-11+8+6)\cdot(-15+8+6)$ [+1]

363 $(-1+5)\cdot[-(+1+8)-(12-8)]+(-11+12)\cdot(8-6)$ [−50]

364 $-11-[(8-5-6)\cdot(-10+13-5)+(-13+15)\cdot(8-9)]\cdot(21-24)$ [+1]

365 $[(-12)\cdot(+2)+(-5)\cdot(-5)]\cdot[-18-(-5-7)+(9-4)-(+3+2)]$ [−6]

366 $[-(5-7-4)\cdot(5\cdot2-13)-(12-18)]\cdot[-(12-10)+18-21]$ [+60]

367 $-15\cdot\{(-6)\cdot(-10+14)-[(13-12-7)\cdot(18-15)-5]\}$ [+15]

368 $-1-\{[(-5)\cdot(-8)-(-2+11)\cdot(5-1)]\cdot(-10+12)-(-5)\}$ [−14]

369 $[(-8)\cdot(5-8)-(-10)\cdot(5-7)]\cdot\{10-[-(-5)+(-8)\cdot(10-12)]\}$ [−44]

370 **VERIFICO E CONTROLLO** Nello svolgimento delle espressioni ci sono degli errori: individuali e correggili.

a. $-8-2\cdot(+5-6)=\underline{-8-2-1=-11}$ [$-8-2\cdot(-1)=-6$]

b. $(-6+5-4)\cdot(-7)=(-5)\cdot(-7)=\underline{-35}$ [+35]

c. $-4-3\cdot(+3)=\underline{(-7)\cdot(+3)=-21}$ [$-4-9=-13$]

d. $(1-4)\cdot(3+2)-2=\underline{(-3)\cdot(+5)\cdot(-2)=+30}$ [$(-3)\cdot(+5)-2=-17$]

Calcola il valore delle espressioni con i numeri razionali.

371 $-2\cdot\left(+\frac{2}{11}\right)+\left(-\frac{7}{2}\right)\cdot\left(-\frac{1}{11}\right)$ $\left[-\frac{1}{22}\right]$

372 $\left(-\frac{2}{7}\right)\cdot(-3)+\left(-\frac{2}{7}\right)\cdot\left(+\frac{1}{5}\right)-\frac{9}{5}$ [−1]

373 $\left(\frac{3}{2}-2+\frac{1}{10}\right)\cdot\left(+\frac{2}{15}\right)+\frac{1}{5}-\frac{2}{75}$ $\left[+\frac{3}{25}\right]$

374 $\left(-1-\frac{1}{2}\right)\cdot\left(\frac{5}{4}-\frac{1}{2}\right)+\left(\frac{5}{12}-\frac{1}{8}\right)$ $\left[-\frac{5}{6}\right]$

375 $\left(-\frac{4}{5}+\frac{2}{15}\right)+\left(-3+\frac{1}{12}\right)\cdot\left(+\frac{1}{5}\right)$ $\left[-\frac{5}{4}\right]$

376 $\left(-\frac{10}{7}-1-\frac{1}{14}\right)\cdot\left(-\frac{1}{3}\right)+\left(-1-\frac{1}{4}\right)$ $\left[-\frac{5}{12}\right]$

377 $\left(-\frac{1}{2}+\frac{2}{3}+1\right)\cdot\left(-1-\frac{1}{5}\right)-\left(-\frac{1}{3}\right)\cdot\left(1+\frac{1}{2}\right)$ $\left[-\frac{9}{10}\right]$

378 $2\cdot\left(-\frac{1}{9}+\frac{1}{3}-\frac{1}{27}\right)\cdot\left(-\frac{9}{5}\right)+\left(-\frac{11}{6}\right)\cdot\left(-\frac{2}{3}\right)$ $\left[+\frac{5}{9}\right]$

379 $\left(-\frac{1}{2}+\frac{8}{5}\right)\cdot\left(-1+\frac{6}{11}\right)+\left(\frac{2}{3}-\frac{1}{6}\right)\cdot\left(-\frac{1}{2}\right)$ $\left[-\frac{3}{4}\right]$

380 $\left(-\frac{3}{4}-\frac{4}{3}\right)\cdot\left(3-\frac{3}{5}\right)+\left(-1-\frac{1}{2}\right)\cdot\left(-\frac{3}{5}+\frac{1}{10}-\frac{1}{2}\right)$ $\left[-\frac{7}{2}\right]$

488 $\frac{7}{15} : \left(-\frac{4}{3} + \frac{19}{15} - \frac{7}{15}\right) - \left|-\frac{4}{3} : 16 : \left(-\frac{2}{9}\right)\right|$ $\left[-\frac{5}{4}\right]$

489 $\left[\left(\frac{1}{10} + \frac{1}{5}\right) \cdot \left(\frac{1}{9} + \frac{1}{3}\right)\right] : \left(2 + \frac{1}{5} - 1\right) + \frac{2}{9}$ $\left[+\frac{1}{3}\right]$

490 $\left[7 - \frac{1}{3} - \left(\frac{3}{2} - 2\right)\right] \cdot \frac{4}{3} + \frac{5}{6} - 22 \cdot \frac{1}{2} + \frac{1}{18}$ $\left[-\frac{5}{9}\right]$

491 $\left[1 + \left(1 - \frac{7}{4}\right) \cdot \left(\frac{1}{5} + 1\right)\right] : \left(1 - \frac{3}{4}\right) - \frac{1}{2} - \frac{1}{5}$ $\left[-\frac{3}{10}\right]$

492 $\left[\frac{1}{2} + \frac{1}{3} - \left(\frac{1}{4} - \frac{1}{5}\right) - \frac{1}{6}\right] : \left[-1 + \left(\frac{1}{3} - \frac{1}{8}\right) + \frac{1}{6}\right] + \frac{4}{5} \cdot \frac{1}{10}$ $\left[-\frac{68}{75}\right]$

493 $\left(\frac{3}{8} - \frac{1}{4}\right) + \left[\left(-\frac{1}{2} + \frac{2}{3} - \frac{2}{5}\right) \cdot \left(-\frac{10}{7}\right) + \left(-\frac{2}{3} + 1 - \frac{1}{5} - \frac{2}{15}\right)\right] + \frac{1}{24}$ $\left[+\frac{1}{2}\right]$

494 $\left(\frac{5}{6} - \frac{1}{3} + \frac{12}{5} - \frac{1}{6}\right) : \left(1 - \frac{2}{3}\right) \cdot \left(-\frac{5}{41}\right) + \left(\frac{3}{4} + \frac{1}{2} - \frac{3}{8}\right) : \left(\frac{5}{2} - \frac{1}{8} - 1\right)$ $\left[-\frac{4}{11}\right]$

495 $\left[\frac{3}{4} + \frac{5}{13} \cdot \left(\frac{2}{5} - \frac{1}{2} + \frac{3}{4}\right)\right] : \left[\frac{1}{7} \cdot \left(\frac{3}{4} + \frac{5}{8} - \frac{1}{2}\right) + 1\right] - \frac{1}{9}$ $\left[+\frac{7}{9}\right]$

496 $\frac{1}{3} \cdot \left[-\frac{2}{3} \cdot \left(\frac{2}{5} - \frac{1}{3}\right)\right] : \left(-\frac{1}{15}\right) \cdot 3 + \frac{1}{3}$ $[+1]$

497 $\left[\frac{15}{4} \cdot \left(\frac{1}{2} + \frac{3}{5} - \frac{7}{10}\right)\right] : \left[\frac{4}{9} \cdot \left(-\frac{3}{4} + \frac{5}{8} - \frac{5}{2}\right)\right] + 1$ $\left[-\frac{2}{7}\right]$

498 $\left(\frac{5}{4} + 2 - \frac{7}{3}\right) : \frac{1}{3} - \left[\left(-\frac{1}{2} + \frac{2}{3} - \frac{1}{5}\right) \cdot \frac{3}{2} - \frac{1}{5}\right] + \frac{15}{7} \cdot \left(\frac{1}{2} - \frac{3}{5} + \frac{1}{3}\right)$ $\left[+\frac{7}{2}\right]$

499 $\left[\left(-\frac{7}{5} + \frac{3}{2} + \frac{21}{10}\right) + 1\right] : \left(\frac{2}{3} - \frac{1}{5} + \frac{6}{5}\right) \cdot \left(-\frac{5}{8}\right) + \frac{1}{5}$ $[-1]$

500 $\left[-\frac{2}{3} \cdot \left(-\frac{1}{3}\right) + \frac{1}{2} \cdot \left(\frac{1}{5} - 1\right)\right] : \left[1 + \frac{10}{3} \cdot \left(-\frac{1}{5}\right)\right] \cdot \left(\frac{2}{3} + 1\right) + \frac{4}{9}$ $\left[-\frac{4}{9}\right]$

501 $\left[-\left(2 + \frac{1}{4}\right) - \left(-1 - \frac{1}{3}\right)\right] : \left(-\frac{3}{2} \cdot \frac{11}{2}\right) + \frac{2}{9}$ $\left[+\frac{1}{3}\right]$

502 $\left[\frac{4}{9} \cdot \left(\frac{1}{2} - \frac{1}{5} - \frac{3}{20}\right) - \frac{1}{12}\right] + \left(\frac{7}{10} - \frac{5}{4}\right) : \left(\frac{6}{5} - \frac{9}{20}\right)$ $\left[-\frac{3}{4}\right]$

503 $\left[-\frac{3}{4} \cdot \left(\frac{1}{5} + 1\right) + 1\right] : \left(\frac{1}{2} - \frac{1}{4}\right) - \frac{1}{2} - \frac{1}{10}$ $\left[-\frac{1}{5}\right]$

504 $\left(-\frac{4}{15} + \frac{2}{5}\right) : \frac{4}{25} - \left(5 - \frac{3}{5}\right) \cdot \frac{1}{4} + \frac{19}{15} + \left(+\frac{13}{5}\right) \cdot \left(-\frac{25}{26}\right)$ $\left[-\frac{3}{2}\right]$

505 $-2 \cdot \left[\left(-\frac{3}{5} + \frac{10}{3}\right) \cdot \left(-\frac{7}{5} + \frac{9}{4} \cdot \frac{1}{15} + \frac{9}{4}\right) - \left(1 - \frac{1}{10}\right)\right] \cdot 3$ $[-11]$

506 $\frac{2}{81} + \left[-\frac{1}{3} + \frac{2}{3} \cdot \left(-\frac{1}{2} - \frac{1}{3}\right) - \frac{21}{45} \cdot \frac{4}{7}\right] : \left(1 + \frac{1}{5} - 3\right) - \frac{1}{3}$ $\left[+\frac{1}{3}\right]$

507 $\left[\left(1 - \frac{3}{5}\right) + \left(-\frac{4}{25} + \frac{9}{10} - \frac{3}{2}\right) \cdot \frac{10}{19}\right] + \left(-\frac{1}{6} - \frac{2}{3}\right) \cdot \left(\frac{1}{2} - \frac{3}{10} + \frac{7}{4}\right)$ $\left[-\frac{13}{8}\right]$

508 $\frac{1}{3} \cdot \left[\left(\frac{5}{9} - 1 + \frac{2}{3}\right) \cdot \left(\frac{1}{13} + \frac{19}{2} - \frac{1}{6}\right) \cdot \left(-\frac{3}{4} + 2 - \frac{5}{4}\right) + \frac{1}{2}\right] + \left(\frac{1}{3} + \frac{7}{9}\right) \cdot \left(\frac{3}{4} - 1\right) \cdot \left(-\frac{1}{5} + \frac{1}{2}\right)$ $\left[+\frac{1}{12}\right]$

509 $\left\{\left(5 + \frac{5}{3}\right) \cdot \left[\frac{1}{2} - \frac{3}{5} + \left(\frac{2}{3} - \frac{1}{6} - \frac{5}{4}\right) + \frac{3}{2}\right]\right\} : \left[\left(1 + \frac{1}{4}\right) \cdot \left(-\frac{1}{3} + \frac{6}{5} - 2\right) + \left(2 - \frac{1}{2}\right) - \frac{5}{8}\right]$ $[-8]$

510 $\left[\left(\frac{5}{4} + \frac{2}{5}\right) \cdot \left(1 - \frac{1}{11}\right) - \frac{5}{4} - 1\right] : \left\{\frac{2}{17} \cdot \left[-\frac{7}{4} + \frac{3}{2} - \left(\frac{5}{3} \cdot \frac{5}{2} - \frac{1}{6}\right)\right]\right\} - 1$ $\left[+\frac{1}{2}\right]$

511 $\frac{4}{9} \cdot \left\{\frac{3}{4} - \left[\left(\frac{7}{20} - \frac{3}{5} + 1\right) + \frac{3}{2}\right]\right\} + \left(-1 + \frac{1}{5}\right) \cdot \left[\frac{1}{4} + \left(1 - \frac{1}{3}\right) - \frac{1}{2}\right]$ $[-1]$

512 $\frac{1}{9} + \left\{\left(1 - \frac{11}{18}\right) - \left(\frac{3}{2} - \frac{4}{3} + 1\right) \cdot \left[1 + \left(-\frac{8}{15}\right) \cdot \left(-3 + \frac{7}{4}\right)\right]\right\} + \frac{3}{2} + \frac{7}{6} - \frac{1}{9}$ $\left[+\frac{10}{9}\right]$

700 $1+\left[\left(1-\frac{5}{4}\right)^3:\left(\frac{1}{8}+1-\frac{7}{4}\right)-1+\frac{3}{5}\right]^2:\left[\frac{5}{8}\cdot\left(-\frac{6}{5}\right)\right]^3-\frac{1}{3}$ $\left[+\frac{1}{3}\right]$

701 $\left[\left(\frac{7}{6}\right)^7:\left(\frac{7}{6}\right)^5\right]\cdot\left[\left(\frac{1}{7}\right)^0+\left(\frac{3}{4}-\frac{2}{3}-\frac{7}{12}\right)^2:\left(\frac{5}{8}-\frac{1}{4}+\frac{1}{2}\right)\right]-\left(-\frac{1}{2}\right)^2$ $\left[+\frac{3}{2}\right]$

702 $\left(\frac{2}{3}\right)^5\cdot\left(\frac{2}{3}\right):\left(\frac{2}{3}\right)^4-\left(2-\frac{1}{4}\right)\cdot\left[\left(\frac{4}{9}-\frac{5}{6}\right):\left(1+\frac{4}{3}\right)^2-\frac{1}{2}\right]-1$ $\left[+\frac{4}{9}\right]$

703 $\left\{\left(-\frac{11}{14}\right)^2\cdot\left(\frac{7}{11}\right)^2-\left[\left(\frac{1}{3}\right)^2+\left(\frac{1}{2}\right)^2\right]\right\}:\left[\frac{1}{3}+\left(\frac{2}{3}\right)^2-\frac{5}{9}\right]+\frac{1}{2}$ [0]

704 $\left[\left(-\frac{1}{2}-3\right)^3\cdot\left(\frac{1}{2}+3\right)^2:\left(-\frac{5}{2}-1\right)^4+1\right]+\left(-\frac{2}{3}\right)^2\cdot\left(1-\frac{1}{4}\right)^2+\frac{1}{4}$ [−2]

705 $\left(\frac{1}{9}+\frac{4}{3}-\frac{3}{2}\right)\cdot\left\{\left[\left(2-\frac{1}{11}\right)\cdot\left(3-\frac{10}{7}\right)\right]^2+\left(1+\frac{1}{2}+\frac{5}{4}\right)^2:\left(\frac{1}{2}+\frac{4}{3}\right)^2\right\}+\left(-\frac{1}{2}\right)^3$ $\left[-\frac{3}{4}\right]$

706 $\left[\left(\frac{5}{2}-3\right)^3\cdot\left(\frac{1}{2}-1\right):\left(-\frac{1}{2}\right)^2\right]^2-\left[\left(-\frac{1}{2}\right)^6:\left(-\frac{1}{2}\right)^4\right]^2+\left(\frac{1}{2}+\frac{3}{5}-1\right)\cdot\left(-\frac{1}{4}+3-\frac{3}{2}\right)$ $\left[+\frac{1}{8}\right]$

707 $\left\{\left[\left(\frac{5}{4}\right)^2:\frac{4}{5}\right]:\left[\left(\frac{15}{8}\right)^8:\left(\frac{15}{8}\right)^5\right]-\left(1-\frac{1}{3}\right)\right\}:\left[\left(\frac{3}{5}+1\right)^2:\left(\frac{16}{15}\right)^2:\left(-1-\frac{1}{2}\right)^3\right]^2-\frac{1}{6}$ [−1]

708 $\left\{(-4)^2\cdot\left[\frac{5}{8}+\left(\frac{1}{8}-\frac{3}{4}\right)\cdot\left(\frac{3}{5}-\frac{7}{10}\right)\right]\right\}:\left[\left(\frac{1}{2}+7\right)^3:\left(1+\frac{1}{2}+\frac{9}{4}\right)^3:(-2)^4+5\right]+(-1)^2$ [+3]

709 $\left[\left(-1-\frac{3}{4}\right)\cdot\left(\frac{1}{3}-\frac{5}{7}\right)\right]^3\cdot\left\{\left[\left(\frac{9}{5}-\frac{7}{2}+\frac{11}{4}\right)\cdot\left(-\frac{1}{7}-\frac{2}{21}\right)\right]^2-\frac{3}{4}-1\right\}-\frac{1}{8}+\left(-\frac{1}{2}\right)^2$ $\left[-\frac{3}{8}\right]$

710 $\left\{\left[-\left(1+\frac{1}{3}\right)+\frac{4}{3}\right]:\left(\frac{1}{3}\right)^4\right\}^3:\left[\left(1+\frac{5}{2}+\frac{1}{3}\right):\left(1+\frac{1}{3}\right)\right]^2+\frac{1}{5}$ $\left[+\frac{1}{5}\right]$

711 $\left\{1+\frac{1}{2}\cdot\left[1+\left(\frac{1}{2}+1\right)^2\cdot\frac{2}{3}\right]^2-\left(\frac{1}{4}-\frac{1}{2}+1\right)^2\right\}:\left(2+\frac{3}{8}\right)+1-\frac{1}{4}$ $\left[+\frac{9}{4}\right]$

712 $32\cdot\left[\left(1-\frac{1}{4}\right)^4\cdot\left(2-\frac{2}{3}\right)^4+\frac{2}{3}\right]^3\cdot\left(1-\frac{2}{5}\right)^3:2^5+\left[\left(\frac{1}{2}\right)^3-\left(-\frac{1}{2}\right)^2-4\right]\cdot\left(1-\frac{7}{11}\right)+\frac{1}{2}$ [0]

713 $\left\{\left[\left(2+\frac{1}{4}-\frac{7}{2}\right)^2-\left(2-\frac{1}{6}-\frac{19}{12}\right)^2\right]:\left(-\frac{4}{5}-\frac{7}{10}\right)\right\}:\left\{\left[\left(2+\frac{1}{4}-\frac{5}{2}\right)^2-\left(\frac{11}{6}-\frac{7}{12}\right)^2\right]\cdot\left(-\frac{2}{3}\right)^3\right\}-\frac{1}{4}$ $\left[-\frac{5}{2}\right]$

714 $\left[\left(-\frac{10}{3}\right)^2\cdot\left(-\frac{7}{20}-\frac{1}{15}+\frac{1}{4}\right)+\left(\frac{3}{2}\right)^2\cdot\frac{4}{3}\right]:\left\{13\cdot\left(\frac{1}{6}\right)^2-\left[-\frac{12}{35}:\left(-\frac{8}{21}\right)+\frac{2}{5}\right]:\left(-\frac{3}{5}-2\right)\right\}-\frac{1}{3}$ [+1]

715 $\frac{1}{2}:\left\{\left(\frac{1}{4}-\frac{1}{10}\right)^3:\frac{27}{8}-\left(\frac{1}{10}\right)^3+\left(-\frac{2}{3}\right)^2\cdot\left[\frac{13}{5}\cdot\left(1-\frac{7}{13}\right)\cdot\left(1-\frac{1}{4}\right)\right]-\frac{1}{4}\right\}-\frac{1}{3}$ [+3]

716 $\left\{\left[\left(\frac{3}{2}-\frac{1}{3}\right)^2\cdot\left(\frac{1}{14}+\frac{1}{7}\right)+\left(\frac{1}{4}-\frac{1}{6}\right)^2\cdot 3\right]:\left(\frac{1}{2}+2\right)^2\right\}:\left[\left(1-\frac{1}{10}\right)\cdot\left(\frac{1}{3}-\frac{4}{15}\right)+\left(\frac{1}{2}-\frac{2}{5}\right)^2\cdot 2\right]+\frac{1}{8}$ $\left[+\frac{3}{4}\right]$

717 $\left(-\frac{13}{4}\right)^2:\left(\frac{3}{2}+1+\frac{3}{4}\right)^2-\left\{1+\frac{1}{3}+\left(\frac{3}{5}-\frac{4}{15}\right)^3:\left[1-2\cdot\left(-\frac{2}{3}\right)^2\right]\right\}^2\cdot\left(2-\frac{7}{5}\right)^3+\frac{1}{2}-\frac{1}{10}$ $\left[+\frac{4}{5}\right]$

718 $\dfrac{\left(\frac{1}{4}-\frac{5}{9}+\frac{7}{36}\right):\left(-\frac{1}{6}\right)^2+3}{\left(-\frac{10}{3}-2^3\right):\left(-\frac{1}{3}+\frac{5}{8}+\frac{5}{12}\right)}\cdot 2^4$ [+1]

719 $\dfrac{\left(-\frac{3}{2}\right)^3:\left(\frac{9}{5}+\frac{3}{4}-9\right)-\frac{1}{43}}{\left(\frac{1}{2}\right)^8\cdot\left(\frac{1}{2}\right)^3:\left[\left(\frac{1}{2}\right)^5\right]^2}$ [+1]

720 $\dfrac{-\frac{2}{3}+\left[\left(\frac{4}{3}-2\right)^2\cdot\left(1-\frac{5}{3}\right)^2-1\right]\cdot\left(2-\frac{1}{5}\right)}{\left(-1-\frac{1}{2}\right)^3\cdot\left(-\frac{2}{9}\right)^2-3}:\left(-\frac{2}{3}\right)^2$ $\left[+\frac{3}{2}\right]$