MATEMATICA INTERATTIVA
CLASSE 3 \ UNITÀ 2 – **LE OPERAZIONI CON I NUMERI RELATIVI**
ESERCIZI DI PREPARAZIONE AL COMPITO IN CLASSE

ARGOMENTO B2.a

Esegui le seguenti addizioni:

a) $(+12)+(-4)+(+6)+(-10)+(-6)+(-7)=$

b) $(+14)+(+8)+(-17)+(+16)+(-9)+(-22)=$

c) $(-6)+(+8)+(-7)+(+4)+(+7)=$

d) $(+40)+(-48)+(+46)+(+12)+(-17)+(-25)=$

[a) -9 b) -10 c) +6 d) +8]

ARGOMENTO B2.b

Esegui le sottrazioni tra numeri relativi:

a) $(+6)-(-4)=$ b) $(-8)-(+2)=$

c) $(-5)-(-7)=$ d) $(+15)-(-10)=$

e) $(-41)-(-7)=$ f) $(-32)-(+10)=$

g) $(+121)-(-11)=$ h) $(-25)-(-267)=$

[a) +10 b) -10 c) +2 d) +25 e) -34 f) -42 g) +132 h) +242]

ARGOMENTO B2.c

Calcola le somme algebriche dopo aver sciolto le parentesi:

a) $-3-\left(1-\frac{1}{2}\right)+\left(+1+\frac{1}{4}\right)-\left(2-\frac{1}{2}\right)+\left(2+\frac{11}{4}\right)=$

b) $\left(-\frac{5}{12}+1-\frac{1}{8}\right)+\left(\frac{1}{6}-\frac{1}{2}+\frac{1}{12}\right)-\left(-\frac{5}{8}+\frac{3}{4}-\frac{1}{2}\right)=$

c) $\left(\frac{1}{5}+\frac{3}{10}-2\right)-\left[\left(2-\frac{1}{2}-\frac{1}{6}\right)-\left(-\frac{1}{4}+\frac{7}{3}\right)\right]+\left(\frac{3}{2}-\frac{5}{3}-\frac{1}{15}\right)+\frac{5}{6}=$

d) $2-\left\{\frac{1}{3}-\left[-\frac{1}{3}+\left(-2+\frac{3}{4}\right)-\frac{3}{4}\right]-\left[-1+\left(-2-\frac{1}{2}\right)\right]\right\}=$

[a) $+1$ b) $\frac{7}{12}$ c) $-\frac{3}{20}$ d) $-\frac{25}{6}$]

ARGOMENTO B3.a

Esegui le seguenti moltiplicazioni:

a) $\left(-\frac{2}{3}\right)\cdot\left(+\frac{2}{9}\right)=$ b) $\left(+\frac{5}{3}\right)\cdot(-9)=$

c) $\left(-\frac{5}{2}\right)\cdot(-3)=$ d) $\left(+\frac{7}{4}\right)\cdot\left(+\frac{8}{7}\right)=$

e) $(-2)\cdot\left(-\frac{5}{4}\right)\cdot\left(-\frac{1}{5}\right)=$ f) $\left(+\frac{5}{3}\right)\cdot\left(-\frac{9}{20}\right)=$

g) $\left(+\frac{7}{4}\right)\cdot\left(+\frac{8}{35}\right)=$ h) $\left(-\frac{7}{13}\right)\cdot\left(+\frac{26}{5}\right)=$

[a) $-\frac{4}{27}$ b) -15 c) $+\frac{15}{2}$ d) $+2$ e) $-\frac{1}{2}$ f) $-\frac{3}{4}$ g) $\frac{2}{5}$ h) $-\frac{14}{5}$]

Calcola il valore delle seguenti espressioni:

a) $\left(-\frac{4}{3}+1+\frac{1}{15}\right)\cdot\left(\frac{3}{4}-\frac{1}{2}+1\right)=$

b) $\left(-\frac{4}{3}+\frac{5}{6}\right)\cdot\left(1-\frac{1}{2}-\frac{3}{4}\right)+\frac{7}{8}=$

c) $\left(-3+\frac{1}{2}-\frac{5}{6}\right)\cdot\left(-\frac{7}{12}+\frac{5}{6}-\frac{1}{4}\right)+\left(-2+\frac{1}{4}\right)\cdot\left(-\frac{4}{3}+1\right)-\frac{1}{12}=$

d) $\frac{2}{5}\cdot\left[-\left(-\frac{1}{2}+1-\frac{4}{15}-\frac{2}{5}\right)\cdot\left(-1-\frac{4}{5}\right)-\frac{1}{5}\right]-\frac{2}{3}+\frac{13}{15}=$

[a) $-\frac{1}{3}$ b) 1 c) $+\frac{1}{2}$ d) 0]

ARGOMENTO B3.b

Esegui le divisioni tra numeri relativi:

a) $\left(-\frac{4}{5}\right):\left(-\frac{1}{5}\right)=$ b) $\left(+\frac{2}{5}\right):\left(-\frac{4}{3}\right)=$

c) $\left(+\frac{7}{3}\right):\left(-\frac{2}{9}\right)=$ d) $\left(-\frac{15}{12}\right):\left(-\frac{10}{9}\right)=$

e) $\left(+\frac{1}{2}\right):\left(+\frac{5}{6}\right)=$ f) $\left(-\frac{2}{3}\right):\left(-\frac{1}{9}\right)=$

g) $\left(+\frac{8}{5}\right):\left(+\frac{4}{3}\right)=$ h) $\left(-\frac{2}{7}\right):(-3)=$

[a) 4 b) $-\frac{3}{10}$ c) $-\frac{21}{2}$ d) $+\frac{9}{8}$ e) $+\frac{3}{5}$ f) $+6$ g) $\frac{6}{5}$ h) $\frac{2}{21}$]

Calcola il valore delle seguenti espressioni:

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

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

c) $\left\{-2\cdot\left[\frac{3}{2}:\left(-\frac{1}{2}\right)\right]\right\}:\left[-4:\left(-\frac{2}{3}\right):\left(-\frac{3}{2}\right)\right]=$

d) $-1+\frac{2}{3}\left\{\left[\left(-3+\frac{1}{2}\right)\left(-5+\frac{1}{2}\right)\right]:\left[-3\left(-2-\frac{1}{2}\right)\right]\right\}=$

[a) $\frac{18}{5}$ b) -7 c) $-\frac{3}{2}$ d) 0]