Esercizio 1 compito A (risultati)

a) $(-7)+(+7)=0$

b) $(+4)+(-12)=-8$

c) $(-3)+(+11)=+8$

d) $(-3)+(-12)=-15$

e) $(-7)-(+7)=-14$

f) $(+5)-(-5)=+10$

g) $(+2)-(-13)=+15$

h) $(-1)-(+15)=-16$

i) $(-2)-(-15)=+13$

j) $(+6)\cdot(-6)=-36$

k) $(+3)\cdot(-8)=-24$

l) $(-4)\cdot(+6)=-24$

m) $(-5)\cdot(-3)=+15$

n) $(+4):(-4)=-1$

o) $(+12):(-3)=-4$

p) $(-3):(+7)=-\dfrac{3}{7}$

q) $(-16):(-8)=+2$

r) $(+9)^2=+81$

s) $(-5)^2=+25$

t) $(+4)^3=+64$

u) $(-6)^3=-216$

v) $(-3)^0=+1$

w) $(+4)^{-3}=\left(+\dfrac{1}{4}\right)^3=+\dfrac{1}{64}$

x) $(-5)^{-2}=\left(-\dfrac{1}{5}\right)^2=+\dfrac{1}{25}$

y) $(-2)^{-3}=\left(-\dfrac{1}{2}\right)^3=-\dfrac{1}{8}$

z) $(-2)^{+3}=-8$

Esercizio 2 compito A (risultati)

a) $\left(-\dfrac{5}{6}\right)+\left(+\dfrac{3}{4}\right)=\dfrac{(-10)+(+9)}{12}=-\dfrac{1}{12}$

b) $\left(+\dfrac{5}{18}\right)-\left(-\dfrac{1}{6}\right)=\dfrac{(+5)-(-3)}{18}=+\dfrac{8}{18}=+\dfrac{4}{9}$

c) $(-3)-\left(-\dfrac{3}{5}\right)=\dfrac{(-15)-(-3)}{5}=-\dfrac{12}{5}$

d) $\left(-\dfrac{7}{3}\right)\cdot(-7)=+\dfrac{49}{3}$

e) $\left(-\dfrac{1}{3}\right)\cdot\left(+\dfrac{9}{5}\right)=-\dfrac{3}{5}$

f) $\left(+\dfrac{8}{3}\right)\cdot\left(+\dfrac{9}{4}\right)=+6$

g) $\left(-\dfrac{21}{16}\right):\left(+\dfrac{14}{12}\right)=\left(-\dfrac{21}{16}\right)\cdot\left(+\dfrac{12}{14}\right)=-\dfrac{9}{8}$

h) $\left(+\dfrac{5}{3}\right):(-1)=\left(+\dfrac{5}{3}\right)\cdot\left(-\dfrac{1}{1}\right)=-\dfrac{5}{3}$

i) $\left(-\dfrac{6}{7}\right)^2=+\dfrac{36}{49}$

j) $\left(+\dfrac{3}{5}\right)^{-2}=\left(+\dfrac{5}{3}\right)^2=+\dfrac{25}{9}$

k) $\left(-\dfrac{7}{8}\right)^0=+1$

l) $\left(-\dfrac{1}{12}\right)^{-1}=\left(-\dfrac{12}{1}\right)^1=-12$

Esercizio 3 compito A (risultati)

a)

$12-[(-21+32-4)-(24-21+32)]-[(12+17)+(24-13)]=$

$12-[-21+32-4-24+21-32]-[12+17+24-13]=$

$12+21-32+4+24-21+32-12-17-24+13=$

$12+21-32+4+24-21+32-12-17-24+13=$

$+4-17+13=+17-17=0$

b)

$\left(+\dfrac{1}{4}\right)-\left(-\dfrac{1}{2}\right)+\left(-\dfrac{3}{4}\right)-\left(+\dfrac{1}{5}\right)-\left(-\dfrac{1}{5}\right)=$

$+\dfrac{1}{4}+\dfrac{1}{2}-\dfrac{3}{4}-\dfrac{1}{5}+\dfrac{1}{5}=$

$+\dfrac{1}{4}+\dfrac{1}{2}-\dfrac{3}{4}=$

$\dfrac{+1+2-3}{4}=+\dfrac{0}{4}=0$

Esercitazione Numeri Relativi

Esercizio 1 compito B (risultati)

a) $(-7)+(+12)=+5$

b) $(+3)+(-11)=-8$

c) $(-4)+(-12)=-16$

d) $(-5)+(+5)=0$

e) $(+7)-(-7)=+14$

f) $(-5)-(+13)=-15$

g) $(+2)-(-15)=+17$

h) $(-1)-(-15)=+14$

i) $(-7)-(+7)=-14$

j) $(-6)\cdot(-6)=+36$

k) $(+3)\cdot(-5)=-15$

l) $(-4)\cdot(+8)=-32$

m) $(-5)\cdot(+3)=-15$

n) $(+12):(-4)=-3$

o) $(+12):(-4)=-3$

p) $(-2):(+7)=-\dfrac{2}{7}$

q) $(+5):(-5)=-1$

r) $(-9)^3=-729$

s) $(+5)^3=+125$

t) $(-3)^0=+1$

u) $(-6)^2=+36$

v) $(+4)^2=+16$

w) $(+5)^{-3}=\left(+\dfrac{1}{5}\right)^3=+\dfrac{1}{125}$

x) $(-4)^{-2}=\left(-\dfrac{1}{4}\right)^2=+\dfrac{1}{16}$

y) $(-3)^{+2}=+9$

z) $(-3)^{-2}=\left(-\dfrac{1}{3}\right)^2=+\dfrac{1}{9}$

Esercizio 2 compito B (risultati)

a) $\left(+\dfrac{4}{15}\right)-\left(-\dfrac{1}{3}\right)=\dfrac{(+4)-(-5)}{15}=+\dfrac{9}{15}=+\dfrac{3}{5}$

b) $\left(-\dfrac{5}{6}\right)+\left(-\dfrac{3}{4}\right)=\dfrac{(-10)+(-9)}{12}=-\dfrac{19}{12}$

c) $(-3)-\left(-\dfrac{3}{5}\right)=\dfrac{(-15)-(-3)}{5}=-\dfrac{12}{5}$

d) $\left(-\dfrac{5}{2}\right)\cdot(-5)=+\dfrac{25}{2}$

e) $\left(+\dfrac{1}{2}\right)\cdot\left(+\dfrac{8}{5}\right)=+\dfrac{4}{5}$

f) $\left(+\dfrac{8}{3}\right)\cdot\left(-\dfrac{9}{4}\right)=-6$

g) $\left(-\dfrac{21}{16}\right):\left(+\dfrac{14}{12}\right)=\left(-\dfrac{21}{16}\right)\cdot\left(+\dfrac{12}{14}\right)=-\dfrac{9}{8}$

h) $\left(+\dfrac{7}{4}\right):(-1)=\left(+\dfrac{7}{4}\right)\cdot\left(-\dfrac{1}{1}\right)=-\dfrac{7}{4}$

i) $\left(-\dfrac{6}{7}\right)^0=+1$

j) $\left(-\dfrac{3}{5}\right)^2=+\dfrac{9}{25}$

k) $\left(-\dfrac{1}{10}\right)^{-1}=\left(-\dfrac{10}{1}\right)^1=-10$

l) $\left(+\dfrac{3}{8}\right)^{-2}=\left(+\dfrac{8}{3}\right)^2=+\dfrac{64}{9}$

Esercizio 3 compito B (risultati)

a)
$$12-[(-21+32-5)-(24-21+32)]-[(12+17)+(24-13)]=$$
$$12-[-21+32-5-24+21-32]-[12+17+24-13]=$$
$$12+21-32+5+24-21+32-12-17-24+13=$$
$$12+21-32+5+24-21+32-12-17-24+13=$$
$$+5-17+13=+18-17=+1$$

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

Esercitazione Numeri Relativi