

Verifica A**Esercizio 1**

a) $(-7) + (+5) = -2$

b) $(+5) + (+12) = +17$

c) $(-9) + (-6) = -15$

d) $(-12,3) + (+6,8) = -5,5$

e) $\left(+\frac{1}{3}\right) + \left(-\frac{5}{7}\right) = \frac{(+7) + (-15)}{21} = -\frac{8}{21}$

f) $\left(-\frac{4}{5}\right) + \left(+\frac{3}{18}\right) = \left(-\frac{4}{5}\right) + \left(+\frac{1}{6}\right) = \frac{(-24) + (+5)}{30} = -\frac{19}{30}$

Esercizio 2

a) $(-3) - (+4) = -7$

b) $(-19) - (+19) = -38$

c) $(+2,3) - (+4,6) = -2,3$

d) $(-2,3) - (-4,6) = +2,3$

e) $(-2) - \left(-\frac{2}{7}\right) = \frac{(-14) - (-2)}{7} = -\frac{12}{7}$

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

Esercizio 3

a) $(+3) \cdot (+5) = +15$

b) $(-5) \cdot (-6) = +30$

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

d) $(+15) \cdot (-1) = -15$

e) $\left(-\frac{7}{3}\right) \cdot (-7) = +\frac{49}{3}$

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

Esercizio 4

a) $(+24) : (-6) = -4$

b) $(-26) : (+13) = -2$

c) $(+8) : (+28) = +\frac{2}{7}$ oppure $+0,285714$

d) $(-29) : (-10) = +2,9$ oppure $+\frac{29}{10}$

e) $\left(-\frac{21}{16}\right) : \left(+\frac{14}{12}\right) = \left(-\frac{21}{16}\right) \cdot \left(+\frac{12}{14}\right) = \left(-\frac{3}{4}\right) \cdot \left(+\frac{3}{2}\right) = -\frac{9}{8}$

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

Esercizio 5

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

b) $(-4)^2 = +16$

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

d) $(-4)^3 = -64$

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

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

g) $(+4)^{-2} = +\frac{1}{16}$

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

Esercizio 6

$$\begin{aligned} & (+7) - (+2) + (+13) - (-6) + (-9) = \\ \text{a) } & 7 - 2 + 13 + 6 - 9 = \\ & 7 + 13 + 6 - (2 + 9) = 26 - 11 = 15 \end{aligned}$$

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

$$\begin{aligned} \text{b) } & -\frac{1}{4} + \frac{1}{2} + \frac{3}{4} - \frac{1}{5} + \frac{1}{5} = \\ & -\frac{1}{4} + \frac{1}{2} + \frac{3}{4} = \frac{-1 + 2 + 3}{4} = \frac{4}{4} = 1 \end{aligned}$$

Verifica B

Esercizio 1

- a) $(-7) + (+12) = +5$
 b) $(-9) + (-5) = -14$
 c) $(-7) + (+6) = -1$
 d) $(-13,2) + (+6,9) = -6,3$
 e) $\left(+\frac{1}{3}\right) + \left(-\frac{4}{7}\right) = \frac{(+7) + (-12)}{21} = -\frac{5}{21}$
 f) $\left(-\frac{5}{8}\right) + \left(+\frac{3}{15}\right) = \left(-\frac{5}{8}\right) + \left(+\frac{1}{5}\right) = \frac{(-25) + (+8)}{40} = -\frac{17}{40}$

Esercizio 2

- a) $(-17) - (+17) = -34$
 b) $(-3) - (+5) = -8$
 c) $(+2,3) - (-4,6) = +6,9$
 d) $(-2,3) - (+4,6) = -6,9$
 e) $(-1) - \left(-\frac{4}{5}\right) = \frac{(-5) - (-4)}{5} = -\frac{1}{5}$
 f) $\left(+\frac{5}{21}\right) - \left(-\frac{1}{7}\right) = \frac{(+5) - (-3)}{21} = +\frac{8}{21}$

Esercizio 3

- a) $(-5) \cdot (-6) = +30$
 b) $(+3) \cdot (+5) = +15$
 c) $(+13) \cdot (-1) = -13$
 d) $(-4) \cdot (+7) = -28$
 e) $\left(-\frac{8}{3}\right) \cdot (-8) = +\frac{64}{3}$
 f) $\left(-\frac{1}{4}\right) \cdot \left(+\frac{8}{5}\right) = -\frac{2}{5}$

Esercizio 4

- a) $(+24) : (-4) = -6$
 b) $(-39) : (+13) = -3$
 c) $(+6) : (+14) = +\frac{3}{7}$ oppure $+0,428571$
 d) $(-27) : (-10) = +2,7$ oppure $+\frac{27}{10}$
 e) $\left(-\frac{16}{21}\right) : \left(+\frac{12}{14}\right) = \left(-\frac{16}{21}\right) \cdot \left(+\frac{14}{12}\right) = \left(-\frac{4}{3}\right) \cdot \left(+\frac{2}{3}\right) = -\frac{8}{9}$
 f) $\left(+\frac{8}{5}\right) : (-1) = -\frac{8}{5}$

Esercizio 5

- a) $(-5)^2 = +25$
 b) $(+5)^2 = +25$
 c) $(-5)^3 = -125$
 d) $(+5)^3 = +125$
 e) $\left(-\frac{6}{7}\right)^0 = +1$
 f) $\left(-\frac{7}{8}\right)^2 = +\frac{49}{64}$
 g) $(+5)^{-2} = +\frac{1}{25}$
 h) $\left(+\frac{5}{3}\right)^{-2} = +\frac{9}{25}$

Esercizio 6

- a) $(+7) - (-2) + (-13) - (+6) + (+9) =$
 $7 + 2 - 13 - 6 + 9 =$
 $7 + 2 + 9 - (13 + 6) = 18 - 19 = -1$
 b) $\left(-\frac{1}{4}\right) - \left(+\frac{1}{2}\right) + \left(+\frac{3}{4}\right) - \left(+\frac{1}{5}\right) - \left(-\frac{1}{5}\right) =$
 $-\frac{1}{4} - \frac{1}{2} + \frac{3}{4} - \frac{1}{5} + \frac{1}{5} =$
 $-\frac{1}{4} + \frac{1}{2} + \frac{3}{4} = \frac{-1 - 2 + 3}{4} = \frac{0}{4} = 0$