

NOMBRES ENTERS

1-

a) $-5 - 3 = -8$

b) $-4 + 9 = 5$

c) $-12 + 8 = -4$

d) $-17 + 25 = 8$

e) $-24 - 25 = -49$

f) $33 - 15 = 18$

g) $-12 + 12 = 0$

h) $-11 + 22 = 11$

i) $-16 + 8 = -8$

j) $18 + 2 = 20$

k) $-15 - (-20) = 5$

l) $6 - 9 = -3$

m) $-2 - (-2) = 0$

n) $-19 - (-18) = -1$

o) $0 - (-7) = 7$

p) $5 - (-6) = 11$

2-

a) $-25, -20, -15, -10, -5, 0, 5, 10$

b) $-22, -19, -16, -13, -10, -7, -4, -1, 2$

3-

a) $-3 \cdot 5 = -15$

b) $-3 \cdot 7 = -21$

c) $3 \cdot 4 = 12$

d) $-4 \cdot 10 = -40$

e) $-6 \cdot (-2) = 12$

f) $15 \cdot (-12) = -180$

4-

a) $-5 \cdot (9 - 3) \Rightarrow -5 \cdot 6 = -30 \Rightarrow -5 \cdot 9 + (-5) \cdot (-3) = -30$

b) $(2 - 6) \cdot (-4) \Rightarrow -4 \cdot (-4) = 16 \Rightarrow 2 \cdot (-4) + (-6) \cdot (-4) = 16$

c) $(-1 - 3) \cdot 5 \Rightarrow -4 \cdot 5 = -20 \Rightarrow -1 \cdot 5 + (-3) \cdot 5 = -20$

d) $-3 \cdot (-2 + 8) \Rightarrow -3 \cdot 6 = -18 \Rightarrow -3 \cdot (-2) + (-3) \cdot 8 = -18$

5-

a) $46 : (-3) \Rightarrow$ no és exacta

b) $-45 : 5 = -9$

c) $-27 : (-9) \Rightarrow 3$

d) $-17 : 17 = -1$

e) $-9 : (-3) \Rightarrow 3$

f) $-34 : (-17) = 2$

6-

a) $3^2 = 9$

g) $(4,25)^4 = 326,25$

b) $(-5)^3 = -125$

h) $(-14,32)^8 = 1\,768\,251\,942$

c) $7^4 = 2\,401$

i) $-7^3 = -343$

d) $(-9)^2 = 81$

j) $7^0 = 1$

e) $(-2,02)^4 = 16,65$

k) $(-\frac{8}{5})^5 = -10,49$

f) $(-\frac{5}{8})^5 = -\frac{3125}{32768}$

l) $(-5)^1 = -5$

7-

a) $\frac{8}{15} - \frac{7}{5} + \frac{9}{10} = \frac{16}{30} - \frac{42}{30} + \frac{27}{30} = \frac{27}{30} - \frac{26}{30} = \frac{1}{30}$

b) $\frac{2}{3} + \frac{11}{27} + \frac{5}{81} + \frac{7}{9} = \frac{54}{81} + \frac{33}{81} + \frac{5}{81} + \frac{63}{81} = \frac{155}{81}$

c) $\frac{2}{3} + \frac{3}{2} - 1 + \frac{1}{4} = \frac{8}{12} + \frac{18}{12} - \frac{12}{12} + \frac{4}{12} = \frac{26}{12} - \frac{16}{12} = \frac{10}{12} = \frac{5}{6}$

d) $3 - \frac{1}{2} \cdot \frac{4}{3} = 3 - \frac{4}{6} = \frac{18}{6} - \frac{4}{6} = \frac{14}{6} = \frac{7}{3}$

e) $\frac{2}{3} + \frac{1}{2} : \frac{3}{4} = \frac{2}{3} + \frac{4}{6} = \frac{4}{6} + \frac{4}{6} = \frac{8}{6} = \frac{4}{3}$

f) $\frac{21}{16} : \left(\frac{9}{8} - \frac{1}{54}\right) = \frac{21}{16} : \left(\frac{243}{216} - \frac{4}{216}\right) = \frac{21}{16} : \frac{239}{216} = \frac{4536}{3824} = \frac{567}{478}$