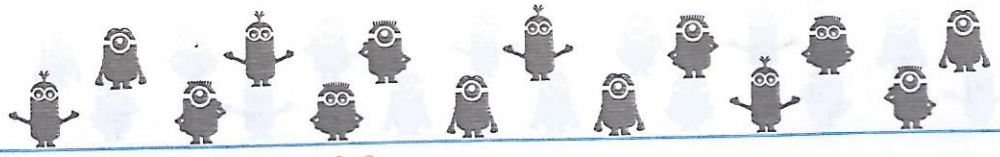


a) $1001,1001_2$ = 9,89

2^3+2^0, $2^{-1}+2^{-4}$ = 9 $\frac{1}{2}+\frac{1}{16}$ $\frac{16+2}{32}=\frac{18}{32}=\frac{9}{16}$ 9,0625

b) $101101,1011_2$ = 45, 6875

$2^0+2^2+2^3+2^5$

$2^{-1}+2^{-3}+2^{-4}=\frac{1}{2}+\frac{1}{8}+\frac{1}{16}=\frac{11}{16}$

c $1010101,1101_2$ = 85, 6875

$2^0+2^2+2^4+2^6$

d $11100111,0011_2$ = 231, 1875

$2^0+2^1+2^2+2^5+2^6+2^7$

$2^{-3}+2^{-4}=\frac{1}{8}+\frac{1}{16}=\frac{24}{128}=\frac{12}{64}=\frac{6}{32}\ \frac{3}{16}$

e $1011101,0001$ = 93, 0625

$2^0+2^2+2^3+2^4+2^6$ =

$\therefore 1+4+8+16+64$ $2^{-4}=\frac{1}{16}$

f) $42,3125_{10}$ = 101010, 011

$2^5+2^3+2^1$

↳ 0,3125 x 2 = 0,625

0,625 x 2 = 1,5

0,5 x 2 = 1

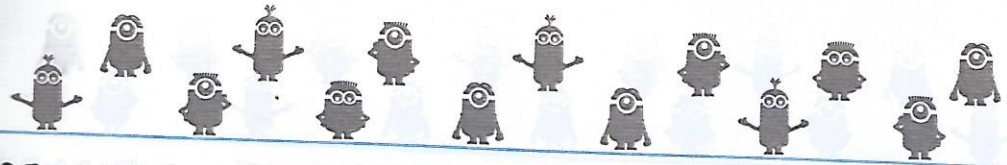
g) $71,625_{10}$ = 100111, 11

64+4+2+1

$2^5+2^2+2^1+2^0$

h) $104,8125_{10}$ = 1101000, 111

64+32+8 0,8125 x 2 = 1,625



i) $125,5625_{10}$ = 1111101,1001

64+32+16+8+4+1

0,5625 x 2 = 1,1250

0,1250 x 2 = 0,2500

0,25 x 2 = 0,5

0,5 x 2 = 1,1

j) 162,6875 = 10100010,1011

128 32 2

0,6875 x 2 = 1,3750

0,3750 x 2 = 0,750

0,750 x 2 = 1,5

0,5 x 2 = 1