

Tema 2.9

$$16. \text{ a) nota medie} = (6+8+5+10+9+8+7+4+6+9+10+8+7+7+5+10+9+9+6+8+10+10+5+4) : 24 = 180 : 24 = 7,5$$

$$\text{b) media clasei} = (2 \times 4 + 3 \times 5 + 3 \times 6 + 3 \times 7 + 4 \times 8 + 4 \times 9 + 5 \times 10) : 24 = (8+15+18+21+32+36+50) : 24 = 180 : 24 = 7,5$$

$$17. \quad m_a = (a+b+c) : 3$$
$$m_a = \frac{65}{3} \quad \Rightarrow (a+b+c) : 3 = \frac{65}{3} \quad | \cdot 3 \Rightarrow a+b+c = 65$$

$$m_a = [(a+47) + (b-18,5) + (c+104,5)] : 3 = (a+47+b-18,5+c+104,5) : 3$$
$$= (a+b+c + 47 - 18,5 + 104,5) : 3 = (65 + 47 - 18,5 + 104,5) : 3 =$$
$$= (112 - 18,5 + 104,5) : 3 = (93,5 + 104,5) : 3 = 198 : 3 = 66 \Rightarrow$$

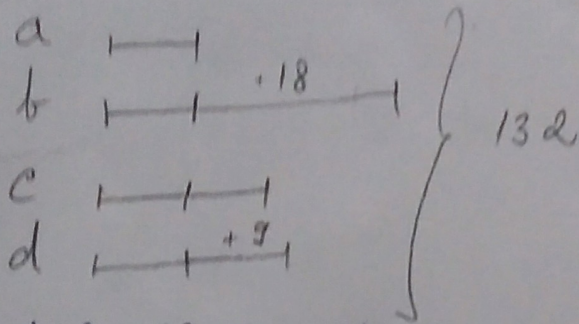
$$\Rightarrow m_a = 66$$

$$18. (a+b+c+d):4 = 33 \Rightarrow a+b+c+d = 33 \cdot 4 \Rightarrow a+b+c+d = 132$$

$$b = a + 18$$

$$c = a \cdot 2$$

$$d = (a+b):2 = (a+a+18):2 = (2a+18):2 = a+9$$



$$132 - 18 - 9 = 114 - 9 = 105 \text{ (5 seg. egale)}$$

$$105 : 5 = 21 \text{ (a)}$$

$$21 + 18 = 39 \text{ (b)}$$

$$21 \cdot 2 = 42 \text{ (c)}$$

$$(21 + 39) : 2 = 60 : 2 = 30 \text{ (d)}$$

solu

$$(a+b+c+d):4 = 33 \Rightarrow a+b+c+d = 132$$

$$b = a + 18$$

$$c = a \cdot 2$$

$$d = (a+b):2 = a+9$$

$$a + a + 18 + a \cdot 2 + a + 9 = 132$$

$$a + a + 2a + a + 18 + 9 = 132$$

$$5a = 132 - 27$$

$$5a = 105 \Rightarrow a = 105 : 5 \Rightarrow a = 21$$

$$b = 21 + 18 \Rightarrow b = 39$$

$$c = 21 \cdot 2 = 42$$

$$d = (21 + 39) : 2 \Rightarrow d = 60 : 2 \Rightarrow d = 30$$

$$19. (a+b+c+d+e+f+g+h+i+t):10=17,5 \Rightarrow$$

$$\Rightarrow a+b+c+d+e+f+g+h+i+t=17,5 \cdot 10=175$$

$$b=a+1$$

$$c=b+1=a+1+1=a+2$$

$$d=c+1=a+3$$

$$e=d+1=a+4$$

$$f=e+1=a+5$$

$$g=f+1=a+6$$

$$h=g+1=a+7$$

$$i=h+1=a+8$$

$$t=i+1=a+9$$

$$a+a+1+a+2+a+3+a+4+a+5+a+6+a+7+a+8+a+9=175$$

$$10a+45=175$$

$$10a=175-45$$

$$10a=130 \Rightarrow a=130:10 \Rightarrow a=13 \text{ este cel mai mic număr}$$

$$t=a+9=13+9=22 \text{ este cel mai mare număr}$$

$$20. (a+b):2=32 \Rightarrow a+b=32 \times 2 \Rightarrow a+b=64$$

$$(b+c):2=39 \Rightarrow b+c=39 \times 2 \Rightarrow b+c=78$$

$$(a+c):2=41 \Rightarrow a+c=41 \times 2 \Rightarrow a+c=82$$

$$a, b, c=?$$

$$\begin{array}{r} + \\ a+b+b+c+a+c=64+78+82 \\ 2a+2b+2c=224 \quad |:2 \\ \hline a+b+c=112 \end{array}$$

$$64+c=112 \Rightarrow c=112-64 \Rightarrow c=48$$

$$b+48=78 \Rightarrow b=78-48 \Rightarrow b=30$$

$$a+48=82 \Rightarrow a=82-48 \Rightarrow a=34$$

R: nr. sunt: 30, 34, 48