

1. [1.10]

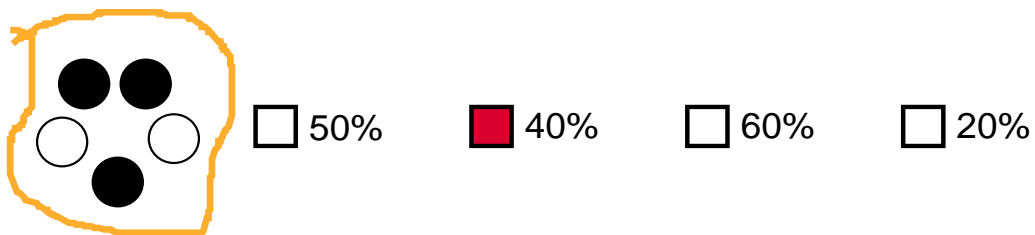
Zecimala	Procente	Fracție
0,8	80%	$\frac{4}{5}$
0,75	75%	$\frac{3}{4}$
0,4	40%	$\frac{2}{5}$
0,05	5%	$\frac{1}{20}$

2.

a) $\frac{2}{5} - \frac{4}{3} \cdot \left(-\frac{9}{8}\right) = \frac{19}{10}$

b) $\frac{3}{5} - 3 + \frac{13}{6} = -\frac{7}{30}$

3.



4. [6.12]

b = greutatea sticlei; c = greutatea dopului

$$b + c = 104; b = c + 100: c + 100 + c = 104 \rightarrow c = \mathbf{2g}$$

5.

$$\frac{\frac{3}{2} \cdot [\sqrt{(57-8)} - 24 \div 8] + 6}{\frac{1}{7} \cdot 28 - \frac{7}{2}} = \mathbf{24}$$

6.



5 times

10 times

9 times

25 times

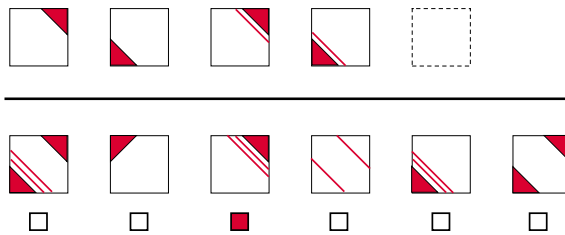
20 times

7.

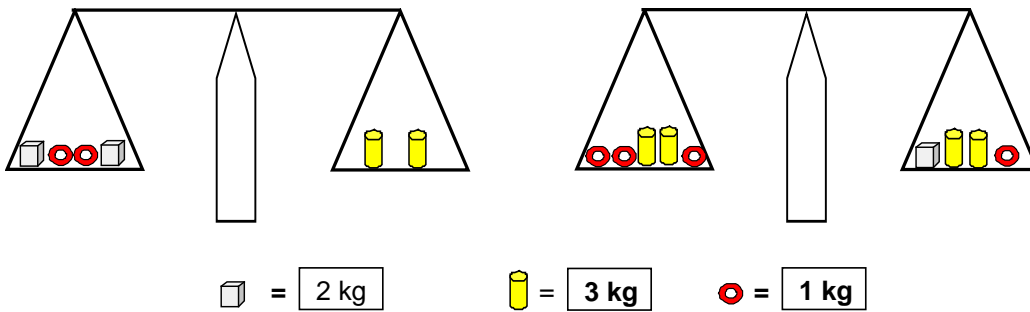
a) 22 din 2.000 → **1,1%**

b) 8 din 20 → **40%**

8.



9. [8.68]



$s = \text{cilindru}; r = \text{inelul}$

$$4 + 2r = 2s$$

$$\rightarrow 2s = 6 \rightarrow s = \mathbf{3 \text{ kg}}$$

$$3r + 2s = 2s + 1r + 2 \quad 2r = 2 \rightarrow r = \mathbf{1 \text{ kg}}$$

10. [3.17]

a) $A = 10\%$; $B = \frac{0,5}{50}$; $C = 0,001$; $D = \frac{1}{25} \rightarrow C < B < D < A$

b) $A = \left(\frac{3}{4}\right)^2$; $B = \frac{3^2}{4}$; $C = \frac{3}{4^2}$; $D = \frac{3}{4} \rightarrow C < A < D < B$

11. [6.34]

$$a = \text{vârsta Annei: } 99a + 208 - 99 = 1000 \rightarrow 99a = 891 \quad a = 9$$

12. [4.16]

$$60 \cdot (1 + 15\%) \cdot (1 - 5\%) = 60 \cdot 1,15 \cdot 0,95 = \mathbf{65,55 \text{ EUR}}$$

13. [8.73]

a)

7	10	-3
4	4	0
1	-2	3

b)

3	9	27
-2	4	-8
1	1	1

14. [1.8]

a) $1,5\% = \mathbf{0,015}$

b) $\frac{3}{15} = \mathbf{0,2}$

c) $\frac{1}{2} - 25\% = \mathbf{0,25}$

15. [4.11]

a) $-\mathbf{15\%}$

b) $+\mathbf{25\%}$