

(Print your name)

Example #1 Recruitment Test – Maths and Logic

Allotted Time: 60 minutes

Please read the following instructions very carefully before starting the test.

- 1. Print your name at the top of this page.
- 2. Answer all questions in this test, and do not use any red ink.
- 3. Do not remove the staples; if you need more space for calculations or notes, use the back of the preceding page.
- 4. For the correct answer you will receive the number of points indicated in the shaded boxes to the right of each question.
- 5. Please note that a comma is used as the decimal separator in all decimal numbers and a point is used as a thousand separators.
- 6. The points are distributed according to the time you should need for every exercise.

NO CALCULATORS

NO MOBILE PHONES

NO BOOKS OR NOTES

Page	2	3	4	Total
Questions	1 - 5	6 - 9	10 - 13	1 - 13
Max no. of points	23	14	23	60
Points received				

1. Complete in the shaded fields the **missing** decimals, fractions, percentages and graphics.

Decimal	Percentage	Fraction	Graphic
	80%		
0,75		$\frac{3}{4}$	
		$\frac{1}{6}$	

2. Add or subtract, respectively:

2 pts. per question **Total:**

1 pt. per answer

- a) $\frac{2}{5} \frac{4}{3} \cdot \left(-\frac{9}{8}\right) =$ b) $\frac{3}{5} - 3 + \frac{13}{6} =$
- 3. You have a sack with 2 white and 3 black balls. What is the probability to grab at the first try a white ball?



4. A bottle and its cap together weight 104g; the bottle weights 100g more than the cap. **How much weights** the cap?

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5. Calculate the value of the expression: [New]

3 points	Total:
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Total:

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

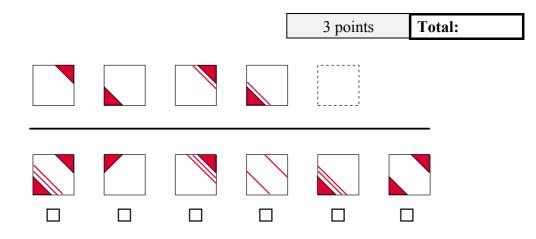
6. At a dinner you count 5 people. If everybody wants to clink classes with everybody, **how many times** do they clink the classes in total?

		3	points	Total:
1	5 times	10 times	9 t	imes
IT	25 times	20 times		

2 pts. per answer

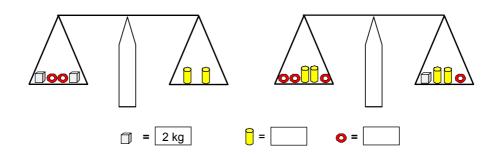
Total:

- 7. Express the proportions in form of **percentages**: [New]
 - a) 22 out of 2.000 –
 - b) 8 out of 20 miles –
- 8. There are four figures in first row of the illustration. Their sequence is subject to a certain rule. Which of the six figures in the second row completes the sequence according to the rule? **Tick the box** below the correct figure.

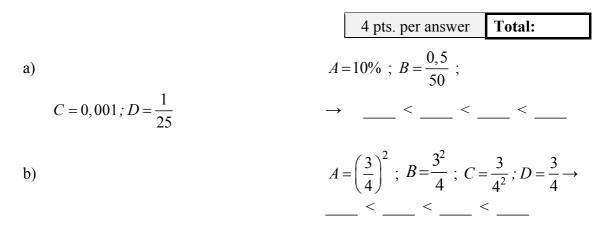


9. The balances are at equilibrium. What is the weight of the elements?

4 points To



10. What is the relation of the four expressions? Order the four by value in increasing sequence (as for instance A < B < C < D).



- 11. The yearly interest rate of a banking account i = 6%. How much will you receive if closing the account after:
 - a) 1 year?
 - b) 2 years, if interest is added to the capital at the end of the first year?
 - c) 4 months?
- 12. Calculate the new price if the old price of 60 EUR is first increased by 15% and then decreased by 5%:

3 points T

Total:

2 pts. per question

13. The numbers in the following schemata are filled in according to a certain system. **Complete** the schema by filling in the last **empty field**:

3 pts. per question	Total:
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4/5

a)	7	10	3
	4		0
	1	-2	-3

b)

3		27
-2	4	-8
1	1	1