

(Print your name)

Example RT#002 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	All
Questions	1 - 5	6 - 10	11 - 15	1 - 15
Max no. of points	24	15	21	60
Points received				

1. Transform the following expressions into **decimals**.

(2 pts. for each correct answer = 6 pts.)

a) 0,05% =

b)
$$\frac{51,4}{200} =$$

c)
$$\frac{36\%}{0,6} =$$

Peter has three times the number of oranges John has. Together they have 48 oranges.
 How many oranges have Peter and how many John?

(3 pts. for the correct answer = 3 pts.)

3. Add or subtract, as appropriate, and give the **result as a fraction**:

(2 pts. for each correct answer = 6 pts.)

a)
$$-\frac{7}{5} - (-2) \cdot \frac{5}{6} =$$

b) $5 + \frac{1}{5} - \frac{36}{24} =$
c) $\frac{21}{9} + \frac{1}{7} - \frac{24}{42} =$

You can feed 6 puppies or 2 dogs with 1 can of food. If you have 10 cans and feed 21 puppies. How many dogs can you feed with the remaining food?

(5 pts. for the correct answer = 5 pts.)

5. Add or subtract, as appropriate, and give the result as a fraction:

(2 pts. for each correct answer = 4 pts.)

a)
$$\frac{3}{4} + \frac{1}{6} \cdot (-7) =$$

b)
$$\frac{12}{7} - 2 + \frac{2}{3} =$$

The base ground of your house measures 20m × 9m. You want to build a rectangular fence surrounding your house which is at a distance of 3m from the house at all sides. How many meters of fence do you need?

(3 pts. for the correct answer = 3 pts.)

7. Divide and present the result as a fraction.

(3 pts. for the correct answer = 3 pts.)

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

8. Divide and cancel all common factors.

(3 pts. for the correct answer = 3 pts.)

- $\frac{18}{35} \div \frac{9}{21} \div \frac{12}{25} =$
- 9. *Peter* is *Maria 's* <u>father</u>. *Maria* is *Anna 's* <u>niece</u>. *Anna* is *Paul 's* <u>daughter</u>. Which one of the following relations is the correct? [8.102]

(3 pts. for the correct answer = 3 pts.)

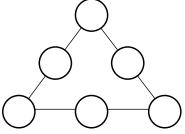
- **O** *Paul* is *Peter's* son
- Anna is Peter's aunt
- *Paul* is *Maria*'s grandfather
- **O** Anna and Maria are cousins
- 10. Calculate the value of the expression.

(3 pts. for the correct answer = 3 pts.)

$$\left[\frac{2\cdot(3-4)^2-3\cdot(2-4)^2}{5}-\sqrt{4}\right]\cdot 8-5=$$

Sum of points on page #3

11. Calculate the proportions in percentages. (2 pts. for each correct answer = 4 pts.) 44 out of 40000 a) b) 9000 out of 100 Thousand 12. Complete the logical sequence of letters. Tick the correct answer. (3 pts. for each correct answer = 6 pts.) a) aj; bl; cn; dp, ? □ fq eq □ er fr b) e; b; g; d; i; f; k; h; ? f \Box 1 k \square m 13. Calculate the **totals** due to the given percentages. (2 pts. for each correct answer = 4 pts.) 0,8% of \$5 Million a) b) 12% of 2.400 clients 14. Calculate the future value of an investment of \$ 4.000 after 2 years which increases its value by 3% each year. (4 pts. for the correct answer = 4 pts.) 15. Allocate the all numbers from 1 to 6 (no doubles) in the circles such as the sum of each side of the triangle is 9. (3 pts. for the correct answer = 3 pts.)



Sum of points on page #2