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Basic maths test for job interview pdf

It's so easy to forget some of the basic numeracy principles that we once learnt. With this in mind we have put together this test pack to help you refresh your skills and improve your performance. If your maths is a bit rusty, a little bit of practice can really help you brush up on your skills. What skills do basic numeracy tests assess? To demonstrate a good education and level of intelligence, many companies request applicants to pass a numeracy test. These tests can vary in content and style, but will ultimately assess basic numerical abilities as well as more complex logical thinking. Our practice test has been designed to help you refresh your numerical skills so that you can be successful at your assessment centre. What is the basic numeracy test format? A basic numerical reasoning test is one of the most commonly used psychometric tests. It will test your ability to carry out basic calculations and understand elementary mathematical concepts. The maths required is generally secondary school level (for age 16). You will typically have between 45 seconds and 2 minutes to answer each question, and so you will need to be well practiced and efficient. These questions will require you to demonstrate mathematical concepts such as addition, subtraction, multiplication and division. This also extends to fractions and decimals, rounding numbers and finding averages. Be mindful that typically a calculator is not allowed for these types of tests. What are the most common types of basic numeracy test? Whilst most numeracy tests are fairly similar, it is important that you are aware of common assessments used by employees: SHL Verify Calculation test is a basic algebraic test. It consists of equations with one missing variable. You will be expected to calculate the numbers to find the variable's correct value. Cut-e Numeracy Test requires more logical thought. The result and operators of the equation are the only information available, and so all of the variables are missing. You will need to establish which set of numbers will make the equation work. 1) What are the different classes of maths are and what maths you prefer? Different types of field for maths are Calculus, Algebra, and Fractions. I use all kinds of maths, but Calculus is major. 2) What is Algebra? Algebra is one of the fields of maths, which uses symbols and letters to represent numbers, point, and objects, as well as the relationship between them. It is used to know the unknown variables. For example, you have lost 5 pens, and you are left with 10 pens now, to know the total number of pens you had it. You will use the algebraic equation. $X -5 = 10$ $X= 10+5 = 15$ which is the total number of pens you had. 3) How much space would a 30 Cup shelf require if a 12 shell cupboard requires 18 ft. of wall space? A 30 Cup shell requires 45 ft. of wall 4) In a staff room, there are four racks with 10 boxes of chalk-stick. In a given day, 10 boxes of chalk stick are in use. What is the fraction that remain in the rack? If each rack consist of 10 boxes of chalk stick, then the total number of the box on 4 racks will be $4X 10 = 40$ Now, the second part is 10 of the boxes are in use which means that the total amount of box left is $40 - 10 = 30$. Now the fraction will be Remained/ total $= 30/ 40 = 3 / 4$ is the fraction remain in the rack 5) What is the formula for calculating the interest rate? There are two types of interest which can be calculated using a different formula Simple Interest Compound Interest To calculate simple interest, the formula used is (PX RX T)/ 100 Where P is the principal amount, R is for the rate of interest and t is for time The formula for calculating compound interest is $PX (1 + r/100) ^ t 6)$ What is Commutative, Associative and Distributive laws in maths? Commutative laws say we can swap numbers, and you still get the same number when you add, for example, $a+b = b+a$ and same for multiplication. Associative laws say it does not matter how we group the number final value will remain the same, for example, $(a+b)+c = (a+b)+c$, and same for multiplication Distributive laws say that we can have the same answer while multiplying a number by a group of numbers added together or multiplying them separately and then add them, For example, a x (b+c) = axb + axc 7) In a small company, the average salary of three employees is $1000 per week. If one employee earns $1100 and other earns $500, how much will the third employee earn? Formula to calculate this, (e1+e2+e3) /3 = $ 1000 1100+500+e3 = 1000 x 3 1600+e3 = 3000 e3 = 3000-1600 = 1400 The third employee will earn $1400 8) Explain in a complicated calculation like 8 + (9 x 52 +8) from where you will start calculation? To avoid confusion from where to start the calculation from, you have to follow the BODMAS B = Bracket first O = Orders (Powers and Square roots) DM = Division and Multiplication AS = Addition and Subtraction Once you have done with B or O, then proceed from left to right doing any "D" or "M" as it is given in the problem, and then proceed from left to right doing any "A" or "S" as given in the problem. 9) What is Geometry? Geometry can be classified into two classes Plane Geometry: It is about flat shapes like triangles, lines and circles that can be drawn on a piece of paper Solid Geometry: It is about three-dimensional objects like cylinders, cubes, prism, and spheres 10) What is the difference between Line, Point, Plane and Solid? Point has no dimensions Line is one-dimensional Plane is two dimensional Solid is three dimensional 11) What is Exterior Angle in polygons? In polygons, the angle between any side of the shape and a line extended from the next side is referred as Exterior Angles. All the exterior angles of the polygon add up to 360°. Each exterior angle must be 360° 12) How can you convert a fraction to a percentage? To convert a fraction to a percentage, we look into an example for 4/9 First divide 4/9 = 0.44 Then multiply by 100 = 0.44 x 100 = 44.44 Add the " % " sign to the answer = 44.44% Percentage of 4/9 = 44.4 % 13) How can you convert a percentage to a fraction? To convert a percentage into fraction let say 70% to a fraction Convert 70 % into decimal = 70/ 100 = 0.7 Write down the decimal "over" the number 1 = 0.7/1 Then multiply top and bottom by 10 = 0.7x 10 = 7/10 For each number after the decimal point 1 x 10 (10 for 1, 100 for 2) Which will give = 7/10 7/10 it the fraction form 14) What is Cubic Meter? Cubic Meter is the standard unit used to measure the volume of an object length by length. The unit is written in m3. 1 m3 (Cubic Meter) = 1000 liters 15) How much is a hectare and how much is square millimetre? 1 hectare = 100 meters on each side , so a hectare has 100 m x 100 m = 10,000 m2 A square millimetre is millimetres x millilitres; a millimetre is a thousand part of a meter, so a square millimetre is one-millionth of a square meter 1 X 1 = 1 of a square meter 1000 1000 1,000, 000 16) If bus conductor issues 50 tickets in 30 minutes how many tickets can he be able to issues in 8 hrs.? If the bus conductor issues 50 tickets in 30 minutes, so the number of ticket issues in 8 hr. will (480 x50) / 30 = 800 tickets So the conductor can issue 800 tickets for 8 hrs. 17) What is Permutation? An ordered arrangement of a group of an object is known as Permutation, for example, the permutation of an arrangement of 9 balls different in colors in 3 different rows can be done in 9P3= 504 ways. 18) What is a linear equation? What is it used for? To calculate or solve problems involving distance, speed and time we use linear equation. It is also used to find solutions that involve weight, mass, and density. A linear equation can be expressed as Ax +By+ Cz+...= D. 19) Give an example where you can use a linear equation in your daily life? For example, if you are the office is 20 miles from your office, and you have reached 8 am, and you know that the traffic is moving at 40 miles per hour. To know what time you should leave from home, use this equation Time taken = distance/ rate of travel t= 20/40 = ½ or half an hour. To reach the office at 8 a.m., you should leave home at 7: 30 am 20) What is a tangent? A line that touches a curve at one point, without passing or cutting across it is referred as a tangent. 21) What is a standard deviation? Standard deviation is the measure of the spread out of the data about the mean value. It is referred to as sigma and represented as symbol σ. Download PDF Mechanical and engineering roles involve problem-solving, measuring, and adding and subtracting to diagnose and fix issues. General math skills such as adding, subtracting, multiplying and dividing are vital in many roles when a quick answer is needed to make a decision. These skills will help you to perform better at work. Some of the more recognizable companies that require employees to take a basic math test include the BBC, Google, the NHS, Amazon and Deloitte. What Math Skills Tests Are There? Many of the leading test providers offer basic math skills tests, such as Kenexa, SHL and the Algonquin College. They all have similar processes, levels of questions and time allocated for each question (typically between 45 seconds and two minutes). The questions differ from provider to provider and the employer may include some bespoke questions. Example Questions Here are some example questions that may be asked by any of the basic math test providers. Example Question 1 What is the mathematical mean of the numbers below? 3, 17, -4, 35, 70 Answer: 24.2. This is found by adding all the numbers together, then dividing by five (the amount of numbers there are). Example Question 2 A basketball team played 120 games and won 100 of them. What percentage of games did they lose? Answer: 24%. There are a couple of ways to find the answer. One way is to divide 120 by 100 (to find 1% of the total), which gives you 1.2, then multiply that by 20 (the number of games they lost). Another way is to multiply 120 by 0.20. Example Question 3 If Imogen had 313 sweets and gave Eleanor 196 of them, how many sweets would be left? Answer: 117. The answer is found by subtracting 196 from 313. Example Question 4 Which is the correct way to write 25% of X? a) 25X b) 1/4X c) 0.20X Answer: 1/4X How to Prepare for Your Basic Math Skills Test When applying for a job role, the details of the application should state if a basic math test will be required. This test could be taken at the initial application stage, after one of the interviews or at the final processing stage. The higher you score on the math test, the more chance you stand of being a successful candidate. There will be a minimum pass score, but employers will be typically looking at those individuals who score highly. To ensure a good score, there are a few ways you can prepare. Take Online Math Tests Many companies and websites have practice math tests that you can download (such as the Algonquin College practice test) or complete online. These will help you to discover the type of questions to expect, as well as practice under time constraints. The more practice tests you do, the more prepared you will feel. Know the Basics Identify which areas of math are covered in all the tests and ensure you have the knowledge and skills in each. Recognize Strengths and Weaknesses By doing the practice tests, you will be able to identify the areas in which you are strong, and the ones that need extra practice. If you are constantly struggling with the algebra questions, for example, try studying the basic points from a book or online. You can then go back to the tests and see if you have improved. Know What to Expect A calculator is typically allowed in the math test, and one is provided if the test is in an assessment center. However, you can take your own calculator with you, which may be helpful as you will be familiar with how it works and where the buttons are. Ensure the batteries are charged and all is working. Also, find out how long you have for the test and practice under exam conditions. That way you should not feel too pressured. Stay Calm During the test itself, try to remain calm and confident, and know that you can do well. Read each question carefully, and use all the time given to go over your calculations and answers. How to Improve Your Basic Math Skills If your math skills are concerning you and you feel you need to improve on the basic areas, there are some common and effective ways to do so. Practice Your Skills in Everyday Life Make the effort to work out your shopping bill as you go round the store, or try and work out percentages or fractions at work, before using the calculator. This will refresh your skills as well as identify areas that need improvement. Sketch Out Your Problems When using those skills in common scenarios, try sketching out the question or problem and working it out from there. Visualizing the problem can help you to go through each step to find the answer. Study From a Book or Online There are many resources available to learn skills online or from a book. You can learn at your own pace and leisure in whichever way suits you. For example, there are YouTube tutorials or interactive guides online, as well as podcasts that you can listen to whilst in the car or on public transport. You can borrow books from the library and make notes on key points to help you learn. Play Math Games and Apps There are many apps and online games that will help improve your basic skills. It could be a role-playing game where you need to add and multiply or work out a measurement, or puzzles that can help with problem-solving. It is a fun and interactive way to learn. Learn Tricks Some resources teach tricks and tips to help with mental math problems – such as working out percentages. Learning these and practicing them as many times as possible will help you to master skills and do well in future tests. Teach Someone a Concept Teaching someone a concept can help you to learn it too. Teaching a child a math concept will help you to visualize the theory in your head. Final Thoughts Basic math skills are important in everyday life as well as in employment. Many employers use basic math skills tests to measure a candidate's intelligence and suitability for certain roles. The tests do not have to be overwhelming. With practice and knowledge of what is involved, you can gain a good score. There are several ways to learn and refresh your basic math skills with online resources and traditional techniques. Do not let this test put you off applying for a job.

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