

# CHAPTER 11 MOTION SECTION 11 1

## DISTANCE AND DISPLACEMENT

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**How do you find displacement and distance in Class 11?** Let  $x_1$  be the position of the object at time  $t_1$  and  $x_2$  be the position of the object at time  $t_2$ . For example, An object is travelling from point A to B here path length ACDB is the distance travelled by the object and Path length AB is displacement.

**What is distance and displacement in motion?** Distance is the measure of “how much ground an object has covered during its motion” while displacement refers to the measure of “how far out of place is an object.”

**How do you describe motion in terms of displacement and distance?** An important part of describing the motion of an object is to describe how far it has moved, which is distance. refers to “how far” an object is from its starting point. Displacement is how far you are from the starting point, as if you moved in a straight line.

**What is the SI unit best suited for measuring the length of a room in your home?** The length of a room is generally too long to be measured in centimetres and too short to be measured in kilometres. Hence the most suitable unit to measure the length of a room is metres.

**How to solve for displacement?** Hence, displacement (s) of an object is equal to initial velocity(u) times time (t), plus half of the acceleration ( $\frac{1}{2} a$ ) multiplied by time squared ( $t^2$ ).

**How do you answer distance and displacement?** Distance is the length of the path taken by an object whereas displacement is the simply the distance between

where the object started and where it ended up.

**What is the formula to find distance?** You calculate distance traveled by using the formula  $d=rt$ . You will need to know the rate at which you are traveling and the total time you traveled. You can then multiply these two numbers together to determine the distance traveled.

**What is the formula for motion and displacement?** If there is no acceleration, we have the formula:  $s=vt$  where  $s$  is the displacement,  $v$  the (constant) velocity and  $t$  the time over which the motion occurred.

**What is the distance answer?** Distance is the scalar quantity, which means the distance of an object doesn't depend on the direction of its motion. Distance is the measurement of length between the objects or points.

**What is an example of displacement?** If an object moves relative to a reference frame (for example, if a professor moves to the right relative to a white board or a passenger moves toward the rear of an airplane), then the object's position changes. This change in position is known as displacement.

**What are examples of distance?** Distance Examples If a car travels 100 meters north and then turns right and travels another 300 meters east, then the total distance that the car traveled can be found simply by adding the two segments of length traveled together. In this example, the total distance the car traveled is 400 meters.

**What is the short answer of displacement?** When a body moves from one position to another, the shortest(straight line) distance between the initial position and final position of the body, represented by an arrow that points from starting position to final position, is known as its displacement.

**What is the best SI unit for distance?** SI unit of distance is a metre according to the International System of Units. Interestingly, using this as the base unit and some equations, many other derived units or quantities are formed like volume, area, acceleration, and speed.

**What are the 4 units of measure which measure distance length in the household system?** The basic units for length or distance measurements in the

English system are the inch, foot, yard, and mile.

**What is the basic of measurement?** Measurement is the basic concept in the study of Mathematics and Science. Measurement quantifies the characteristics of an object or event, which we can compare with other things or events. Measurement is the most commonly used word, whenever we deal with the division of a quantity.

**What unit is displacement measured in?** Displacement (symbolized  $d$  or  $s$ ), also called length or distance, is a one-dimensional quantity representing the separation between two defined points. The standard unit of displacement in the International System of Units (SI) is the meter (m).

**What is the symbol for displacement?** When dealing with motion in one dimension along a straight line, displacement is usually represented by the symbol  $s$ . When considering coordinate systems in two or three dimensions, displacement is usually represented by the symbol  $\vec{r}$ .

**What is the difference between speed and velocity?** Why is it incorrect to use the terms speed and velocity interchangeably? The reason is simple. Speed is the time rate at which an object is moving along a path, while velocity is the rate and direction of an object's movement.

**What is the formula for displacement?** Displacement = Final position – initial position = change in position.

**Is velocity positive or negative?** Velocity: The velocity of an object is the change in position (displacement) over a time interval. Velocity includes both speed and direction, thus velocity can be either positive or negative while speed can only be positive. Another way to say this is that speed is the absolute value of velocity.

**What is displacement in motion?** Displacement is defined as the total change in the object's position along with the direction of motion. Displacement is known to be vector quantity as along with the magnitude of the changed position, the direction of the motion is also taken into account. Displacement can be positive, negative, or zero.

**What is the formula for displacement in physics grade 11?** Displacement = Final position – initial position = change in position.

**What is the distance formula for Class 11?** Distance between two points is the length of the line segment that connects the two points in a plane. The formula to find the distance between the two points is usually given by  $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ . This formula is used to find the distance between any two points on a coordinate plane or x-y plane.

**What is the equation for the displacement of a wave Class 11?** The equation of displacement due to a sound wave is  $s = s_0 \sin(2\pi kx)$  if the bulk modulus of the medium is B, then the equation of pressure variation due to that sound is.

**What is the formula for displacement in nth second class 11?** The displacement in nth second of uniformly accelerated motion is given by  $S_{nth} = u + a(2n - 1)$ . This equation is dimensionally.

**How do you round to the nearest dollar?** Rounding to the nearest dollar is a straightforward process. We must simply look at the digit in the tenth place (the first decimal) and apply the following rules: If the first decimal digit is 5 or more, we increase the whole part by one unit. For example, \$34.57 rounded to the nearest whole dollar is \$35.

**What is 810.59 to the nearest dollar?** Therefore, rounding 810.59 to the nearest dollar gives us the answer 811.

**How do you round money to the nearest?** Rounding money or decimals Rounding a price to the nearest pound is the same as rounding a decimal to the closest whole number. If the price is £2.80 you can round up to £3 because the number in the tenths position is 8. The closest whole number to 2.8 is 3.

**How do you round to the nearest ten dollars?**

**How to teach rounding to the nearest dollar?**

**How do you round to the whole dollar amount?** Whole Dollar Method, a method of reporting dollar amounts in which the fractional part of a dollar is disregarded unless it amounts to one half dollar or more, in which case the amount is rounded up to the next full dollar.

### **What is 49 cents rounded to the nearest dollar?**

**How to round up money?** When rounding to the nearest dollar, round the monetary amount up when the number to the right, immediately following the decimal point, is five or more. Keep the monetary amount the same if the number after the decimal point is four or less. In the example: \$175.439 rounds down to \$175 because 4 is less than 5.

**How to round to the nearest hundred dollar?** We round to the nearest hundreds place by examining the tens place. If the tens value is between 0 and 4, the number must be rounded down, and if the tens value is between 5 and 9, the number must be rounded up.

**What is the nearest rounding rule?** If the digit in the smallest place is less than 5, then the digit is left untouched. Any number of digits after that number becomes zero, and this is known as rounding down. If the digit in the smallest place is greater than or equal to 5, then the digit is added with +1.

### **How to do cash rounding?**

**Do you round dollars up or down?** If the tens digit is four or less, round down. Similarly, to round money to the nearest thousand, you need to look at the hundreds digit. If a hundred digits are five or more, round up.

**How do you round your response to the nearest dollar?** In other words, round to the nearest dollar defines converting a dollar to its nearest whole number value. Explanation: If the calculated cents are less than 50, the cents are left out of the rounded number. If the cents equal or exceed 50, then the whole dollar portion is increased by one.

### **What is an example of rounding to the nearest?**

### **How do you round dollars to the nearest cent?**

**What is round to nearest dollar?** Answer: Rounding to the nearest dollar means adjusting a number to the closest whole dollar amount, either up or down, based on the cents.

**What does "round to the nearest ten dollars" mean?** To round to the nearest tens, we mark the digits in the ones and tens column. The number 3596 has 6 in the ones column and 9 in the tens column. Since the digit in the ones column (i.e., 6) is between 5 and 9, we replace this digit with 0. We then increase the digit in the tens column (i.e., 9) by 1 and get 10.

**What is the easiest way to teach rounding?** Post the benchmark numbers on a classroom whiteboard and draw a number line between the two numbers. Give students the remaining post-it notes and ask them, one at a time, to determine the spot where they think their number would go. (ex: 4,500 to 4,600. Post-it notes include 4,510/4,520/4,530, etc).

**How do you round to the nearest dollar on your taxes?** If rounding is used, it must be used consistently. Withheld tax amounts should be rounded to the nearest whole dollar by dropping amounts under 50 cents and increasing amounts from 50 to 99 cents to the next dollar. For example, \$2.30 becomes \$2 and \$2.50 becomes \$3.

**What is whole dollar round up?** Whole Dollar Round-Ups®: When you make a transaction that's an even dollar amount, you can choose how much you want to invest in your Acorns Invest account — anywhere from \$0 to \$1. You can learn more [here](#).

**What are the rules for rounding up money?** Rules for rounding money amounts If the number of cents ends in 1c or 2c, it is rounded down to 0. Example: \$2.52 is rounded down to \$2.50. If the number of cents ends in 3c or 4c, it is rounded up to the nearest 5c. Example: \$7.63 is rounded up to \$7.65.

**How do you round taxes to the nearest dollar?** If rounding is used, it must be used consistently. Withheld tax amounts should be rounded to the nearest whole dollar by dropping amounts under 50 cents and increasing amounts from 50 to 99 cents to the next dollar. For example, \$2.30 becomes \$2 and \$2.50 becomes \$3.

**What does give your answer to the nearest dollar mean?** Answer: Rounding to the nearest dollar means adjusting a number to the closest whole dollar amount, either up or down, based on the cents. If the cents are 50 or more, round up. If less, round down.

**What is 49 cents rounded to the nearest dollar?**

**How do you round numbers in currency?**

**How do I create a dashboard in Power BI desktop using Excel?**

**How do I convert a report to dashboard in Power BI desktop?** When you select Pin, Power BI creates the new dashboard in the current workspace. After the Pinned to dashboard message appears, select Go to dashboard. If you're prompted to save the report, select Save. Power BI opens the new dashboard, which has one tile: the visualization you just pinned.

**How do you create a financial dashboard?**

**How do I create a report in Power BI desktop using Excel?**

**What is the difference between Power BI dashboard and Excel dashboard?** Power BI can connect to a large number of data sources, while Excel's connectivity capacity is limited. Also, unlike Excel, Power BI can be easily used from mobile devices. Power BI has faster processing than Excel. Power BI dashboards are more visually appealing, interactive and customizable than those in Excel.

**Can we convert Power BI dashboard to Excel?** Select the "Export" menu in Power BI service. Choose the "Analyze in Excel" option. This will export your Power BI dataset to an Excel file.

**How to create a Power BI dashboard step-by-step?**

**What is the difference between dashboard and report in Power BI?** Reports are detailed, multi-page documents that present data in various formats, including tables, charts, and graphs. They are designed for in-depth analysis and exploration. Dashboards, on the other hand, are single-page, real-time displays that aggregate key metrics and insights from multiple reports and datasets.

**How to create dashboard in excel step-by-step pdf?**

**How to prepare a dashboard in Excel?**

**How do I create a reporting dashboard?**

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## **How do I create a dashboard layout?**

**Do I need to learn Excel before Power BI?** While it's not essential to become an expert on all of Excel's advanced features and functions to work with Power BI, having a fundamental understanding of core Excel concepts, such as how to create basic data visualizations, perform data cleaning, combine datasets, and transform layouts, can make it much easier to ...

**How to structure Excel data for Power BI?** Before you can load your Excel file into Power BI, you must organize your data in a flat table. In a flat table, each column contains the same data type; for example, text, date, number, or currency. Your table should have a header row but no columns or rows that display totals. Next, format your data as a table.

## **How to create a dashboard in Power BI desktop from Excel?**

### **What is Power BI dashboard examples?**

**Is Excel good for dashboards?** Excel dashboards make it easy to perform quick overviews of data reports rather than going through large volumes of data.

**Can Power BI be used as a dashboard?** A Power BI dashboard is a single page, often called a canvas, that tells a story through visualizations. Because it's limited to one page, a well-designed dashboard contains only the highlights of that story. Readers can view related reports for the details. Dashboards are a feature of the Power BI service.

**Why use Power BI instead of Excel?** Data Handling Power BI is better suited for analyzing large datasets and gaining enterprise-wide insights, while Excel excels at manipulating and formatting smaller datasets. Power BI connects directly to data warehouses, databases, and cloud data sources to pull in massive amounts of data.

## **How do I integrate Power BI with Excel?**

**Can I run Power BI in Excel?** After you select Analyze in Excel, Power BI generates an Excel workbook and saves it to your OneDrive SharePoint account. It has the same name as the Power BI report, so you can open the workbook directly



in Excel for the web.

**How do I convert Excel to Power BI dashboard?**

**How to create a dashboard using Excel?**

**How to create a simple dashboard in Power BI?**

**How do I create a Power BI dashboard automatically?** Select the Power Automate icon from the Visualizations pane. In Power BI Desktop, you can also add the visual from the ribbon. On the Insert tab, select Power Automate in the Power Platform section. Once you select the visual, it automatically gets added to your current report page, with getting started instructions.

**What is a hempcrete?** Hempcrete is a composite made of natural materials, lime and hemp. The lime component consists of air lime that is formulated to speed up the setting process. The hurds are made using hemp stalks.

**What is the R rating of hempcrete?** Hempcrete has outstanding thermal properties. A 300mm thick Hempcrete wall has an R-value of 4.2 while a 200mm thick floor infill will achieve an R-value of 4.0.

**Is hempcrete legal in the US?** Hempcrete Has Been Approved for U.S Residential Construction The ICC governs U.S. residential building codes for 49 out of 50 states. Hempcrete is a non-toxic, environmentally friendly material that can be used to insulate homes, offices, and other buildings.

**Is hempcrete eco-friendly?** Hempcrete, or Hemp + Lime, is an eco-friendly building material. It blends the inner core of industrial hemp with a lime-based binder, creating a bio-composite. Although not a structural element, Hempcrete serves as insulation between frame members, reducing racking while internal framing supports structural loads.

**What are the downsides of hempcrete?**

**Does hempcrete smell?** Hempcrete blocks used in construction don't look or smell like a marijuana plant. They're nearly odorless with a grayish earth-tone color.

**What is the lifespan of hempcrete?** Hempcrete is used as a building material and usually has the same shape as bricks. Hempcrete can be used for roofing, walls, insulation, and slabs, with walls being the most common. These blocks are low maintenance and can be used for an estimated 300-500 years with proper maintenance when needed.

**How long will hempcrete last?** Hempcrete homes are long lasting. The average home is estimated to last 50-100 years. Hempcrete, on the other hand, has the incredible life span of at least 300-500 years, if not longer and is recyclable.

**Why don't we use hempcrete?** Despite its many benefits, Hempcrete does have a few disadvantages that make it less than ideal as a building material. For instance, the porous structure of the Hempcrete decreases its mechanical performance and increases its ability to retain water.

**Is it cheaper to build with hempcrete?** Domestic hempcrete production can also help more people afford hempcrete buildings. Not long ago, hemp houses could cost up to 30% more to build than conventional structures, Martin said. But as new U.S. hemp processors come online, reliance on expensive imported materials has fallen, lowering costs.

**Why did hemp get banned?** War on drugs The Drug Enforcement Administration (DEA) refused to issue permits for legal hemp cultivation and held that, since industrial hemp is from the same species plant as prohibited cannabis (despite its being of lower THC yield), both were prohibited under the Controlled Substances Act.

**Is hempcrete actually better than concrete?** One of the biggest advantages of hempcrete vs. concrete is its sustainability. Hemp plants absorb large amounts of carbon dioxide during their growth, and this carbon remains trapped within the material after construction.

**Do termites eat hempcrete?** Termites don't just eat the wood that makes up your home. They will eat anything that contains cellulose, such as cotton, flax, and hemp.

**Can hempcrete get wet?** Hempcrete isn't degradation proof against long-term exposure to rain or extreme humidity [187] and noticeable deformation may occur

above 60% moisture content [172], although in the short term exposure, moisture might not propagate deeply into the hempcrete [195] .

**Is hempcrete rodent proof?** Hempcrete repels insects and rodents. Hempcrete biocomposite thermal mass stabilizes interior temperature flux. Hempcrete biocomposite is a non-toxic material and can be recycled or used as a soil amendment, minimizing waste and promoting sustainability.

**Do you need insulation with hempcrete?** The thermal properties of hempcrete are extraordinary. It provides insulation because of pockets of air trapped within the material; both in the spaces between particles of hemp shiv, and in microscopic pores in the hemp shiv itself.

**What is the R value of hempcrete?** Hempcrete's R-value (its resistance to heat transfer) can range from 0.67/cm (1.7/in) to 1.2/cm (3.0/in) , making it an efficient insulating material (the higher the R-value, the better the insulation). The porosity of hempcrete falls within the range of 71.1% to 84.3% by volume.

**What is a substitute for hempcrete?** Stonefiber is a better alternative to Hempcrete When regular hemp hurd gets wet, hemicellulose and other constituents leach into the mix design – these sugars promote mold growth and inhibit ceramic hydration and prevent optimal curing conditions.

**How long can hempcrete last?** It is inexpensive, non toxic when cured, can last for thousands of years, fire resistant, pest resistant, maintains very good compressive strength and is easy to work with.

**Does hemp get moldy?** The fungus *Botrytis cinerea* is a common pathogen that infects many different crops worldwide and causes gray mold on hemp. This fungus initially infects weak, damaged or senescing leaf, bud or stem tissues, especially when environmental conditions are favorable.

**Does hemp insulation mold?** Hemp insulation is non-toxic, mold-resistant, and sound-absorbing. It is also very resistant to pests, such as rodents, moths, and termites.

**How much does it cost to build a house out of hempcrete?** Cons of using hempcrete “Generally, whatever the standard price is for build per square foot, add a

minimum of \$60 to that. So where it may cost an average of \$120 per square foot on a traditional build, a hempcrete structure may cost \$180 per square foot or more.”

**Is hempcrete affordable?** Hempcrete may have a higher initial cost than traditional building materials, but it offers long-term savings in energy consumption and maintenance. Additionally, the availability and sourcing of hempcrete may vary depending on location and market demand.

**What are the disadvantages of hempcrete housing?**

**Can you screw into hempcrete?** They can be fixed directly in the hempcrete blocks without pegs. If a plaster or a finishing plate has been added to the hempcrete blocks, you can still insert these screws directly into the wall. These screws are made of galvanised steel.

**Can you paint over hempcrete?** Can you paint hempcrete? The answer is yes but with a caveat. The breathable nature of hempcrete requires a breathable paint like Real Milk Paint that lets moisture pass through rather than become trapped in the material.

**Is hempcrete soundproof?** Sound insulation The thickness and mass of hempcrete walls provides good acoustic damping from one side of the wall to the other. If walls are left off-form (that is, without render), the absorbent nature of the surface also creates an acoustically 'dead' space within each room.

**Is hempcrete stronger than concrete?** According to [hempcretewalls.com](http://hempcretewalls.com), hempcrete has a compressive strength of 0.5 MPa to 3.5 MPa or 72.5 psi to 507.6 psi. At best that is 16.9% the strength of standard concrete. To put that in perspective, according to the Wikipedia page regarding Ground Pressure, a stiletto heel can exert up to 471 psi.

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**Is hempcrete cheaper than concrete?** For a quick cost comparison, concrete is cheaper than hempcrete, costing \$85 per square meter, while hempcrete, on

average, costs \$135 per square meter. But hempcrete can provide from 50% to 80% in energy savings, mainly with heating and cooling.

**What is the lifespan of hempcrete?** Hempcrete is used as a building material and usually has the same shape as bricks. Hempcrete can be used for roofing, walls, insulation, and slabs, with walls being the most common. These blocks are low maintenance and can be used for an estimated 300-500 years with proper maintenance when needed.

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**Does hempcrete rot?** The lime element of hempcrete being alkaline provides many great benefits, it being a biocide, anti fungal, anti-rot and wood preserver it is also corrosive to steel.

**Can you build a house out of hempcrete?** Is hempcrete accepted in building codes? The U.S. hempcrete industry hit an important milestone in 2022 when it was accepted into the International Residential Code, which spells out rules for the construction of single- and two-family homes in 49 states.

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**Why isn't hempcrete used?** The most notable limiting factor with hempcrete is the low mechanical performance. Due to low mechanical performance, the material should not be used for load-bearing structures.

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