Find the distance and displacement in the following figure



## Find the distance and displacement in the following figure circle. How to find out distance and displacement. How to find displacement. Find the distance and displacement in the following figure class 9. How do you find the distance and displacement.

By the end of this section, you will be able to: Define position, displacement, and distance traveled. Calculate the total displacement given the displacement and elapsed time. When you're in motion, the basic questions to ask are: Where are vou? Where are you going? How fast are you getting there? The answers to these guestions require that you specify your position. Your displacement, and your average velocity—the terms we define in this section. To describe the motion of an object, you must first be able to describe its position (x); where it is at any particular time. More precisely, we need to specify its position relative to a convenient frame of reference. A frame of reference, and we often describe the position of an object as it relates to stationary objects on Earth. For example, a rocket launch could be described in terms of the position could be described in terms of the position could be described in terms of where a cyclist's position could be described in terms of a person in an airplane, for example, we use the airplane, not Earth, as the reference frame. To describe the position of an object undergoing one-dimensional motion, we often use the variable x. Later in the chapter, during the discussion of free fall, we use the variable x. Later in the chapter and a canal. Their motion can be described by their change in position, or displacement, in a frame of reference. (credit: Suzan Black) If an object moves to the right relative to a whiteboard (Figure)—then the object's position changes. This change in position is called displacement. The word displacement implies that an object has moved, or has been displaced. Although position is the numerical value of x along a straight line where an object might be located, displacement indicates direction, it is a vector and can be either positive or negative, depending on the choice of positive direction. Also, an analysis of motion can have many displacements embedded in it. If right is positive and an object moves 2 m to the right, then 4 m to the left, the individual displacements are 2 m and [latex] -4 [/latex] m, respectively. Figure 3.3 A professor paces left and right while lecturing. Her position relative to Earth is given by x. The +2.0-m displacement of the professor relative to Earth is represented by an arrow pointing to the right. Displacement [latex]  $text{\Delta}x = x$  { $text{f}} = x$  { $text{f} = x$  { $text{f}} = x$  { $text{f} = x$  { $text{f}$ and [latex]  $\{x\}$  {0} [/latex] is the initial position. 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Note that the SI unit for displacement is the meter, but sometimes we use kilometers or other units of length. Keep in mind that when units other than meters are used in a problem, you may need to convert them to meters are used in a problem. displacements. In the previous example of the pacing professor, the individual displacement of -2 m. We define total displacement [latex]  $text{\Delta} x [\lambda text{\Delta}, as the sum of the individual displacements, and express this mathematically with the equation [latex] <math>text{\Delta} x [\lambda text{\Delta}, as the sum of the individual displacement of -2 m. We define total displacement of -2$  $x = \frac{\Delta}{x} =$  $x = \frac{\Delta}{x} = -2 m$  to the left, or in the negative direction. It is also useful to calculate the magnitude of the displacement is 2 - 4 = -2 m to the left, or in the negative direction. 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It is also useful to calculate the magnitude of the displacement is 2 - 4 = -2 m to the left, or in the negative direction. It is also useful to calculate the magnitude of the displacement is 2 - 4 = -2 m to the left. because displacement is a vector and cannot have a negative value of magnitude of the total displacements are 2 m and 4 m. The magnitude of the total displacement is 2 m, whereas the magnitude of the total displacement is 2 m.  $x_{\text{Total}} = |\det \{x\}_{\text{Total}} = |\det \{x\}_{1}| + |\det \{A\}_{x}_{2}| = 2 + 4 = 6 |\det \{m\} | text_{A}_{x}_{1}| + |\det \{A\}_{x}_{2}| = 2 + 4 = 6 |\det \{m\} | text_{A}_{x}_{1}| + |\det \{A\}_{x}_{1}| + |\det \{A\}_{x}| + |\det \{A\}_{x}_{1}| + |\det \{A\}_{x}_{x}| + |\det \{A\}_{x}_{x}_{x}| + |\det \{A\}_{x}_{x}| + |\det \{A\}_{x}| + |\det \{A$ kinematics we must introduce the time variable. The time variable allows us not only to state where the object is (its position) during its moving. How fast it is moving is given by the rate at which the position changes with time. For each position [latex] {x} {\text{i}} [/latex], we assign a particular time [latex] {t} {\text{i}} [/latex]. If the details of the motion at each instant are not important, the rate is usually expressed as the average velocity [latex]. This vector quantity is simply the total displacement between two points is called the elapsed time [latex] \text{ $\Delta$ t [/latex] and [latex] {t} {1} [/latex] and [latex] {x} {1} [/latex] and [latex] {t} {1} [/latex] and [latex] {t} {1} [/latex] and [latex] {t} {2} [/latex] and [latex] {t} {2} [/latex] and [latex] {t} {1} [/latex] {t} {1} [  ${text{\Delta}x} = \frac{x}{1}$  (latex] (i is important to note that the average velocity is a vector and can be negative, depending on positions [latex] (x) (1) [/latex] and [latex] (x) (1) [/latex]. Jill sets out from her home to deliver flyers for her yard sale, traveling due east along her street lined with houses. At [latex] 0.5 [/latex] km and 9 minutes later she runs out of flyers and has to retrace her steps back to her house to get more. This takes an additional 9 minutes later she runs out of flyers and has to retrace her steps back to her house to get more. ends up 1.0 km from her house. This third leg of her trip takes [latex] 15 [/latex] minutes she stops to rest. What is Jill's total displacement to the point where she stops to rest? What is the magnitude of the final displacement? What is the average velocity during her entire trip? What is the total distance traveled? Make a graph of position versus time. A sketch of Jill's movements. Strategy The problem contains data on the various legs of Jill's trip, so it would be useful to make a table of the physical quantities. We are given position and time in the wording of the problem so we can calculate the displacements and the elapsed time. We take east to be the positive direction. From this information we can find the total displacement and position in the first two columns, and the displacements are calculated in the third column. Time ti (min) Position [latex] {x} {i} [/latex] (km) [latex] {x} {0}=0 [/latex] [latex] {x} {0}=0 [/latex] [latex] {x} {1}=0.5 [/latex] [latex] {x} {1}=0.5 [/latex] [latex] {x} {1}=0.5 [/latex] [latex] {x} {0}=0 [  $x \{1\} = x \{1\} = 0.5 [/[atex] [latex] \{t\} \{2\} = 1.0 [/[atex] [latex] \{t\} \{2\} = 1.0 [/[atex] [latex] \{t\} \{2\} = 0.75 [/[atex] [latex] [$ {x}\_{4}-{x}\_{3}=-1.75 [/latex] Solution Significance Jill's total displacement is -0.75 km, which means at the end of her trip she ends up [latex] 0.75\,\text{km} [/latex] due west of her home. The average velocity means if someone was to walk due west at [latex] 0.013 [/latex] km/min starting at the same time Jill left her home, they both would arrive at the final stopping point at the same time. Note that if Jill were to end her trip at her house, her total displacement would be zero, as well as her average velocity. The total displacement? (b) What is the distance traveled? (c) What is the magnitude of his displacement? Summary Kinematics is the description of motion along a straight line, called one-dimensional motion. Displacement is the magnitude of his displacement is the meter. Displacement has direction as well as magnitude. Distance traveled is the total length of the path traveled between two positions. Time is measured in terms of change. The time between two positions. Time is measured in terms of change. The time between two positions. Time is measured in terms of change. The time between two positions. Time is measured in terms of change. The time between two positions. Time is measured in terms of change. The time between two positions. Time is measured in terms of change. are two position time points, the average velocity between these points is  $[atex] = frac{x}_{1}.$  [latex] overset{\text{ $\Delta}x} = frac{x}_{1}.$ example specifically. Under what circumstances does distance traveled equal magnitude of displacement? What is the only case in which magnitude of displacement and displacement are exactly the same? Bacteria move back and forth using their flagella (structures that look like little tails). Speeds of up to 50 um/s (50 × 10-6 m/s) have been observed. The total distance traveled by a bacterium is large for its size, whereas its displacement is small. Why is this? Give an example of a device used to measure time and identify what change in the average velocity of an object is zero. What can you say conclude about its displacement over the time interval? Consider a coordinate system in which the positions of a particle (a) 5.0 m directly above the origin and (b) 2.0 m below the origin? A car is 2.0 km west of a traffic light at t = 0 and 5.0 km east of the light at t = 6.0 min. Assume the origin of the coordinate system is the light and the positive x direction is eastward. (a) What are the car's displacement between 0 min and 6.0 min? The Shanghai maglev train connects Longyang Road to Pudong International Airport, a distance of 30 km. The journey takes 8 minutes on average. What is the maglev train's average velocity? The position of a particle moving along the x-axis is given by [latex] what time does the particle between [latex]  $t_s$  [/latex] and [latex] what time does the particle between [latex] text{s} [/latex] and [latex] and [latex] and [latex] what time does the particle between [latex] text{s} [/latex] and [latex] \text{t}=6.0\\text{s}? [/latex] A cyclist rides 8.0 km east for 20 minutes, then he turns and heads west for 8 minutes and 3.2 km. Finally, he rides east for 16 km, which takes 40 minutes. (a) What is the final displacement of the cyclist? (b) What is the final displacement of the cyclist? Earth's atmosphere over Chelvabinsk, Russia, and exploded at an altitude of 23.5 km. Evewitnesses could feel the intense heat from the fireball, and the blast wave for the blast wave? b) Compare this with the speed of sound, which is 343 m/s at sea level. average velocity the displacement divided by the time over which displacement divided beginning time kinematics the description of motion through properties such as position, time, velocity, and acceleration position the location of an object at a particular time total displacement the sum of individual displacements over a given time period

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