

Physics vectors worksheet

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6th, 7th, 8th, 9th, 10th, 11th, 12th, Higher Education, Adult Education, Homeschool 6th, 7th, 8th, 9th, 10th, 11th, 12th, Higher Education, Adult Education, Home School Optional Physics 10 vectors sheet. Problems with many components are easier to solve when values are written in the form of a table like this. Chapter 6 Vectors Vector Components Track marks then add components along each axis to get the components resulting. Physical vectors worksheet with answers. So their resulting vector has a magnitude of 15 m and is in the same direction as the vector m. Use these to get the size and direction resulting. Earlier in Lesson 6, four kinematic equations were introduced and discussed. What is the speed of people in relation to the ground. The introduction of different vectors at this point is not for mastery, but to have students begin to recognize the presence of vectors in everyday situations. More useful would be to go three miles south. A man walks on a treadmill. 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Questions here concern: Vectors and Scalars Scalars adding vectors Unit Vector components vectors Add vectors by components Vector product (Propagator vectors) Vector worksheet: 1> Which of the following elements is vector? i> Energy ii> Power iii> Force iv> Mass 2> Which of the following is the vector? i> Time ii> Work iii> Heat iv> Momentum 3>Which of the following is scalar? i> Base area ii> Kinetic energy iii> Body weight iv> Wind speed 4> Which of the following is scalar? i> Electric field ii> Magnetic moment iii> Acceleration iv> Electrostatic potential 5> Angular momentum is: i> Aquidar ii> Polar Vector iii> Axial Vector iv> Same as Torque 6> Moment of inertia is: i> Scalar ii> Vector iii> Tensor iv> Like weight 7> is: i> Scalar ii> Vector iii> Neither scalar nor vector iv> Tenor 8> is: i> Scalar ii> Vector iii> Neither scalar nor vector iv> Tensor 9> Which of the following is scalar? i> Core mass ii> Proton charge iii> Wind speed iv> Thermal neutron energy 10> Pressure is: i> Aqualar ii> Axial vector iii> Polar vector iv> Neither aqualar nor vector 11> Electric current in circumference is shown by arrow: The stream is: i> A scalar ii> Vector iii> Sometimes scalar and sometimes vector iv> Neither vector nor scalar 12> With reference to the following image, the correct relationship is: Vector MCQ i> ii> iii> iv> 13> With reference to the following image: the correct relationship is: MCQ vector i> ii> iii> iv> 14> When two vectors and sizes are added a and b; the size of the resulting vector is: i> equal to a+b) ii> equal to a-b) iii> not more than iv> not greater than a+b) 15> Minimum number of coplanar vectors of uneven dimensions, the vector sum of which may be zero. is: 1> Two ii> Three iii> Four iv> Any 16> Minimum number of space vectors of unequal range, the sum of which is equal to zero, is: i> two ii> three iii> four iv> any 17> Two vectors and t, with the aircraft, the third vector lies outside that aircraft; then the sum of the three vectors: ; i> may be zero. ii> Never be zero iii> Lies in the place it contains iv> Lies in a plane containing 18> Two vectors and are such that then the angle between the vectors and is: i> zero degree ii> 60 degrees iii> 90 degrees iv> 1 80 degrees 19> Two vectors and are such that then the angles between the vectors and is: i> zero grade ii> 45 degrees iii> 90 degrees iv> 180 degrees 20> For the resultant of two vectors to be the maximum angle between them should be: i> zero grade ii> 60 degrees iii> 90 degrees iv> 180 degrees 21> The sizes of the three vectors of the same type are given below. The resulting, which set can not be zero? i> 10, 10, 10 ii> 10, 10, 20 iii> 10, 10, 20, 40 22 > To produce an effect one i> 1 N ii> 15 N iii> 11 N iv> 20 N 23> Car moves along the road when rain falls vertically down, Rain strikes: i> Front screen ii> Wind screen iii> Both screens equally iv> No No but the roof 24> And the particle moves eastwards at a speed of 5 m/s. At 10 s, the speed varies to 5 m/s northwards. The average acceleration is: i> Zero ii> South-West iii> North-West Direction iv> Northwards 25> Two Vectors and will be perpendicular if: i> ii> iii> iv> 26> If the vector unit is in the direction of: i> ii> iii> iv> 27> The force has a magnitude of 20N. It is one rectangular component is 12N, the second rectangular component must be: i> 8N ii> 14 N iii> 16 N iv> 32 N 28> River flowing from west to east at a speed of 3 m/min. A man on the south bank of the river, able to swim for 6m / min in still water, wants to swim across the river in the shortest time possible. It should sail in the direction of: i> North ii> 30 degrees west of North iii> 30 degrees east of north iv> 60 degrees east of north 29> In question 28, if a person wants to swim across the river on the shortest road, then he should swim in the direction: i> North ii> 30 degrees west of North iii> 30 degrees east of North iv> 60 degrees east of north 30> The resulting of two vectors of uneven magnitudres equals the size of both. The angle between the vector is: i> 60 degrees ii> 90 degrees iii> 120 degrees iv> 180 degrees 31> In the right system: i> ii> iii> iv> 32>> <i>9> Angle between and is: i> ii> iii> 33> Angle between and is: i> ii> iii> iv> 34> If the two vectors and are at right angles to each other, then the value of n must be: i> 2 ii> -2 iii> 1 iv> -135> Consider vector, Vector which is perpendicular to: i> ii> iii> iv> 3 6> Total unit vector is: i> ii> iii> iv> 37> Total unit vector is: i> ii> iii> iv> 38> Vector is along a positive X axis. ii> 39> Since and P + Q = R, then the angle between and is: i> zero ii> iii> iv> 40> Because, and then the angle between and is: i> zero ii> iii> iv> 41> Forces and acts on the point weight in two mutually perpendicular directions. The size of the resulting force per point mass shall be: i> ii> iii> iv> 42> The ship, which has a speed of 5 km/h in still water, crosses a river 1 km wide along the shortest possible route in 15 minutes. The speed of the river in km/h is: i> 1 ii> 3 iii> 4 iv> 43> The ship is sent across the river at a speed of 8Km/h. If the resulting speed of the ship is 10 Km/h, the river flow rate shall be: i> 12.8 km/h ii> 6 Km/h iii> 8 Km/h iv> 10 Km/h 44> If the vector of the particle position is then the particle velocity vector: i> parallel to position vector ii> perpendicular to position vector iii> directed to origin iv> directed from origin 45> Angle of vector with Y-line is: i> ii> iii> iv> 46> Angle performed by two vectors and is: i> zero ii> 45 degrees iii> 90 degrees iv> 180 degrees 47> Body considered movement in Y axis is strength given by Newton. What is the work that the force has done body distance of 10 meters along the Y axis? i> 190 J ii> 160 J iii> 150 J iv> 20 J 48> The aquialar and vector product of the two vectors has a magnitude and 6 units. The angle between the two vectors must be: i> 30 degrees ii> 45 degrees iii> 60 degrees iv> 90 degrees 49> At what angle should the two vectors 2F and act so that the resulting force is: i> 120 degrees ii> 90 degrees iii> 60 degrees iv> 45 degrees 50> Vector unit size and another vector unit size are tilted toward each other at an angle of 30 degrees. The vector product size of these two vectors is: i> 10 units ii> units iii> units iv> 75 units Worksheet responses: 1>ii 2>iv 3>ii 4>ii 5>ii 6>iii 7>ii 8>ii 9>iii 10>ii 11>ii 12>iii 13>iv 14>iv 15>ii 16>iii 17>ii 18>iii 19 >ii 20>ii 21>ii> 22>ii 23>ii 24>ii 25>ii 26>ii 27>iii 28>ii 29>ii 30>ii 31>ii 32>ii 33>iv 34>iv 35>ii 36>iii 37>iv 38>iv 39>ii 40>iii 38>iv 39>ii 40>iii 30>ii 41>ii 42>ii 43>ii 44>ii 45>ii 46>ii 47>iii 48>iii 49>iv 50>iii Related posts: contributions:

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