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Velocity of a roller coaster ranking task mastering physics

Six roller-coaster vehicles pass through the same semicircular bump. The M volume of each cart (including passengers) and the normal n force of the track on the cart at the top of each bump are given in the numbers. Assess the speed of different carts as each passes through the top of the bump. Ratings from largest to smallest. To rank equivalent items, overlap them. All trolleys have an arrow pointing up and one to the right. ^ 400 Nas in Cart^ >>>>>> 200 kgCart1: 400 N , 200kgCart2:800 N , 100 kgcart3: 200 N , 400 kgCart 4 : 400 N , 100 kgcart5: 800 N , 800 kgcart6: 300 N , 300 kgT I know that F = mv ^ 2 / r but I do not know the radius. No formula required. Since the force is directed at the top, the higher the force, the lower the velocity. So divide each force according to its corresponding volume and you will have them all sorted out; the highest value will be the lowest speed In order from highest to lowest 1. 200N/400kg2. 300N/300kg and 800N/800kg3. 400N/200kg4. 400N/100kg 5. 800N/100kg Still wondering? Get your answers by asking now.>>>>> 200 kg/rCart1: 400 N , 200kg/r/rCart2:r/800 N , 100 kg/r/rcart3: 200 N , 400 kg/r/rCart 4 : 400 N ,100 kg/r/rcart5: 800 N , 800 kg/r/r/rCart6: 300 N , 300 kg/r/r/rI know that F=mv^2/r/rbut I don't know the radius..updatedDetails:[],attachedImageUrl:null,bestAnswer:{qid:20090726143707AA2vtW0,id:K9si-IPx1r-WwGPFH7-qt2ECh4PHid9vEAOQgpdYYNVamaTUjU6WfQ=,text:No formula required.rSince the force is upward, the higher the force, the lower the velocity.rSo, divide each force by its corresponding mass and you'll have them all sorted out; giá trị cao nhất sẽ là giá trị thấp nhất đặt hàng từ cao nhất đến thấp nhất 1. 200N/400kg2. 300N/300kg và 800N/800kg3. 400N/200kg4. 400N/100kg 5. 800N/100kg.attachedImageUrl:null,attachedImageId:null,reference:null,answerer:{euid:KEEJyHFmI0CMXlIapEHytYcqGu6w0.. AZTQ19z_cw=-,kid:PT8evcW1aa,nickname:azadeh,imageUrl: level:1},isBestAnswer:false,thumbsDown:1,thumbsUp:13,isAnonymous:false,commentCount:0,createdTime:2015-03-20T11:36:55Z,userAnswerRelation:{hasFlagged:false,canFlag:true,canVote:false,canChooseBestAnswer:false,hasVoted:false,isAuthor:false,hasCommented:false,canComment:true}},isFetching:false,isRefreshing:false,isDeletingAnswer:false,deleteAnswerError:null,isServerFetched:true}},answerCommentsList:[{OQHsKtIPx1oyl6BICsHWupYeSNR9Lo5RhtlQUGZnTWIR5M4H2JGZ4Z4=-,{aid:OQHsKtIPx1oyl6BICsHWupYeSNR9Lo5RhtlQUGZnTWIR5M4H2JGZ4Z4=-,isPostingComment:false,isPostCommentDone:false,commentCount:0,comments:[],postCommentError:null,isFetching:false}},extraQuestionList:[{isFetching:false,questions:[],trendingQuestions:[{qid:20201215214418AAHDGoN,title:What is the maximum speed at which the car could be moving and not hit the barrier 41.0 m ahead? qt2ECh4PHid9vEAOQgpdYYNVamaTUjU6WfQ=-,isPostingComment:false,isPostCommentDone:false,commentCount:0,comments:[],postCommentError:null,isFetching:false}},Assume that the acceleration doesn't change?,answerCount:4,lang-en-US},{qid:20201215023549AAIG58Z,title:What happens if you apply the car's brake and accelerator while on the road?,answerCount:8,lang-en-CA},{qid:20201214142824AAJW/3V,title:I'm struggling big time in physics, can you help me?,answerCount:7,lang-en-AU},{qid:20201214052854AAcsxFw,title:What can magnify sound just as binoculars magnify an image ?,answerCount:7,lang-en-US},{qid:20201209210536AAUoOJ6,title:Is time travel into the past possible?,answerCount:20,lang-en-US},{category:[{L1:[{id:396545012,name:Arts & Humanities,parentId:0,lang-en-US,hasChildren:true},{id:396545144,name:Beauty & Style,parentId:0,lang-en-US,hasChildren:true},{id:396545013,name:Business & Finance,parentId:0,lang-en-US,hasChildren:true},{id:396545311,name:Cars & Transportation,parentId:0,lang-en-US,hasChildren:true},{id:396545660,name:Computers & Internet,parentId:0,lang-en-US,hasChildren:true},{id:396545014,name:Consumer Electronics,parentId:0,lang-en-US,hasChildren:true},{id:396545327,name:Dining Out,parentId:0,lang-en-US,hasChildren:true},{id:396545015,name:Education & Music,parentId:0,lang-en-US,hasChildren:true},{id:396545451,name:Environment,parentId:0,lang-en-US,hasChildren:true},{id:396545433,name:Family & Relationships,parentId:0,lang-en-US,hasChildren:true},{id:396545367,name:Food & Drink,parentId:0,lang-en-US,hasChildren:true},{id:396545019,name:Games & Recreation,parentId:0,lang-en-US,hasChildren:true},{id:396545018,name:Health,parentId:0,lang-en-US,hasChildren:true},{id:396545394,name:Home & Garden,parentId:0,lang-en-US,hasChildren:true},{id:396545401,name:Local Businesses,parentId:0,lang-en-US,hasChildren:true},{id:396545439,name:News & Events,parentId:0,lang-en-US,hasChildren:true},{id:396545443,name:Pets,parentId:0,lang-en-US,hasChildren:true},{id:396545444,name:Politics & Government,parentId:0,lang-en-US,hasChildren:true},{id:396546046,name:Pregnancy & Parenting,parentId:0,lang-en-US,hasChildren:true},{id:396545122,name:Science & Mathematics,parentId:0,lang-en-US,hasChildren:true},{id:396545301,name:Social Science,parentId:0,lang-en-US,hasChildren:true},{id:396545454,name:Society & Culture,parentId:0,lang-en-US,hasChildren:true},{id:396545213,name:Sports,parentId:0,lang-en-US,hasChildren:true},{id:396545469,name:Travel,parentId:0,lang-en-US,hasChildren:true},{id:396546069,name:Yahoo Products,parentId:0,lang-en-US,hasChildren:true}],full:[],currentCategory:[],user:[pinnedCategories:[],euid:null,kid:null,nickname:null,imageUrl:null,level:0,points:0,bestAnswerPercentage:0,totalAnswerCount:0,badges:[],isActive:false,isAnswerUser:false,created,lang,userUser/Assoc:[{isContact:false,isBlocked:false,canAddContact:false},allowance:[],preferences:[],isFetching:false,isFetchError:false,isFetchingPinnedCategories:false},queriedUsers:[],answerQuestions:[{qid:20201216050034AAuw6RA,title:A 6.0 X 10^-3 kg insect is flying horizontally with a momentum of 4.8 X10^-2 kg m/s. Calculate the insect's speed. URGENT ?,answerCount:0,lang-en-US},{qid:20201216051130AA20zEi,title:Please help me with this confusing physics ?,answerCount:0,lang-en-US},{qid:20201216122035AA0SeU3,title:physics help?,answerCount:0,lang-en-US},{qid:20201216064037AAHBV6Q,title:Tierra pushes on a 1000 N rate with a force of 200 N to the right. Thùng không di chuyển. Cả hai lực lượng bình thường và lực lượng là gì ?,answerCount:0,lang-en-US},{qid:20201216043840AA7G1Dd,title:Lực lượng net hành động trên đối tượng được hiển thị trong sơ đồ cơ thể tự do là gì?,answerCount:0,lang-en-US}],ntk.[2 Bezos's ex donates billions.linkUrl: thumbnail:[altText:Jeff Bezos and MackKenzie Scott,resolutions:{sm: B/Zmk9c3RyaW07aD04MDI3PTE3MDthcHBpZD15dGFjaHlvgb~-/ lg: B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ },reactionCount:0},{title:Cruise threatens to fire film crew for breaking COVID rules.linkUrl: thumbnail:[altText:Tom Cruise wears a mask while filming Mission: Impossible 7.\\ (Getty Images),resolutions:{sm: B/Zmk9c3RyaW07aD04MDI3PTE3MDthcHBpZD15dGFjaHlvgb~-/ lg: B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ },reactionCount:0},{title:Kansas mayor resigns after mask mandate backlash .linkUrl: thumbnail:[altText:Joyce Warshaw (USA Today),resolutions:{sm: B/Zmk9c3RyaW07aD04MDI3PTE3MDthcHBpZD15dGFjaHlvgb~-/ lg: B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ },reactionCount:0},{title:Amanda Nunes says she's ready to box Jake Paul.linkUrl: thumbnail:[altText:Amanda Nunes. (Getty Images),đô phản giải:{sm: B/Zmk9c3RyaW07aD04MDI3PTE3MDthcHBpZD15dGFjaHlvgb~-/ lg: B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ },reactionCount:0},{title:Terminally ill elector tears up after casting bầu cử bang Jack Arends trở nên xúc động sau khi bỏ phiếu bầu đại cử tri cho Joe Biden. (AP),resolutions:{sm: B/Zmk9c3RyaW07aD04MDI3PTE3MDthcHBpZD15dGFjaHlvgb~-mg.com/os/creat-uploaded-images/2020-12/7d13e240-3f2f-11eb-81df-7b75b3847e4b,Jg: B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ 11eb-81df-7b75b3847e4b}),reactionCount:0},{title:Fashion mogul Nygard hit with sex trafficking charges.linkUrl: thumbnail:[altText (The Wrap),resolutions:{sm: B/Zmk9c3RyaW07aD04MDI3PTE3MDthcHBpZD15dGFjaHlvgb~-/ lg: B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ },reactionCount:0},{title:Obama clarifies his criticism of 'Defund the Police'.linkUrl: thumbnail:[altText:Former President Obama on \\The Daily Show With Trevor Noah.\\ (Yahoo TV),resolutions:{sm: B/Zmk9c3RyaW07aD04MDI3PTE3MDthcHBpZD15dGFjaHlvgb~-/ lg: B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ },reactionCount:0},{title:'Get cash now' offer to homeowners comes with risks.linkUrl: thumbnail:[altText:House for sale. (Getty Images),đô phản giải:{sm: --B/Zmk9c3RyaW07aD04MDI3PTE3MDthcHBpZD15dGFjaHlvgb~-/ lg: B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ },reactionCount:0},{title:Parents provide update on stricken Florida hoops star.linkUrl: thumbnail:[altText:santa visits lead to COVID outbreaks.linkUrl: thumbnail:[altText:Santas has spread COVID-19 this year. (Chandn Khanna/AFP),resolutions:{sm: B/Zmk9c3RyaW07aD04MDI3PTE3MDthcHBpZD15dGFjaHlvgb~-/ lg: B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ },phản ứng:0},{title:VP-elect Kamala Harris: 'I applaud Mitch McConnell'.linkUrl: thumbnail:[altText:Vice President-elect Kamala Harris applauded Senate Majority Leader Mitch Mc (ABC News),resolutions:{sm: B/Zmk9c3RyaW07aD04MDI3PTE3MDthcHBpZD15dGFjaHlvgb~-/ lg: B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ },reactionCount:0}],abuEditorial:[{shoppingAD:[]}]> B/Zmk9c3RyaW07aD0zODg7dz03MjA7YXBwaWQ9eXRhY2h5b24-/ },,reactionCount:0]],abuEditorial:[{shoppingAD:[]}]>

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