
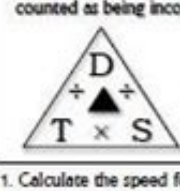


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NAME _____ Speed, Distance, and Time Math Challenge #2 Directions: Read each problem and then solve to determine the correct answer. Show your work or the problem will be counted as being incorrect regardless of your answer.  REMEMBER! S = Speed S = D ÷ T D = Distance D = T × S T = Time T = D ÷ S	
1. Calculate the speed for a car that went a distance of 125 kilometers in 2 hours time. Car's speed: _____	4. A truck was detected exceeding the posted speed limit of 40 km/h. How many kilometers per hour would the truck have been traveling over the limit if it have covered a distance of 10 kilometers in 6 minutes? Truck's excess speed: _____
2. If Sarah swims at an average speed of 8 meters per second, how long will it take her to complete the race of 200 meters? Sarah's swim time: _____	5. It takes a baseball player 16 seconds to round the bases and make it back to home plate. If it is 360 feet to go around all the bases, then calculate the player's average speed. Player's speed: _____
3. An insect is crawling in a straight line at a speed of 12 cm/s. How far will the insect travel in 35 seconds? Insect's distance: _____	6. Lindsay is late to class and is running down the hallway at a speed of 2 m/s. The length of the hallway is 100 meters. How long will it take her to run down the hallway? Lindsay's running time: _____
7. Abigail is riding her bike down the street at 15 m/s. If it takes her 60 seconds to get to the end of the street, then how long was the street? Street's length: _____	

- ____ 2. When a car stops quickly by applying the brakes, the passengers fly forward until stopped by their seatbelt.
- ____ 3. Two cars collide at an intersection. The car with more mass moves a small distance, but the car with less mass skids a great distance across the road.
- ____ 4. A magician pulls a table cloth out from under dishes and glasses set on top of the table.
- ____ 5. The engines fire, and the rocket lifts off the launch pad.
- ____ 6. When Mary adds more items to her grocery cart, she notices it becomes harder to push the cart.

Name: _____ Class: _____ Date: _____

**NEWTON'S LAWS WORKSHEET
ANSWER KEY**

Directions: Fill in the information below. Use the word bank below to help you with the completion questions.

velocity unbalanced lower accelerate
 object
 speed balanced action-reaction mass lower
 inertia force and acceleration equal action
 higher
 direction greater opposite outside pairs

I. NEWTON'S FIRST LAW OF MOTION

15. Newton's first law of motion is also known as the LAW OF _____.

17. Newton's first law says that

- a. an object that is NOT MOVING, or is at _____, will stay at _____.
- AND
- b. an object that IS MOVING will keep moving with constant _____, which means at the same _____ and in the same _____, UNLESS an _____ force acts on that object.

occurs, the ground exerts its own equal and opposite force on the tiger, helping to propel it forward, faster.À Á The Law of interaction in Daily Life You can see the law of interaction in your daily life as well. There are several interactions at play in the physics of motion. In everyday life, we see rolling balls come to rest. He reasoned that if there were no friction, they would roll down an incline and then keep rolling on a horizontal surface forever. This concept was quantified in Newton's First Law of Motion. It takes a force to stop the ball from continuing to roll once it is set in motion. Then have them fasten a 1-lb rock to the other end of the fishing line.Step 2: Have your kids grip the spool so that they are also holding the string beneath it. The first law postulates that an object that is in a rest or motion state will remain that way unless acted upon by an external force. A ball sitting still on a table won't start rolling around unless something pushes on it, be it your hand, a gust of air, or vibrations from the surface of the table. Inertia is a quality of all . SenelP .Sheltpeb gnillelor htemirepxire Oellilag, ecapsulo swabs eht eht eht eht eht eht eht eht eht ti, ecaps eHt eht UOY FI .SHCNI NET TOUBA NWOND KCOR YAVET TRIT TRIP .HART TRANTY LIHET LIHET LIIT TRIV EDA EDA in the HCUS, LLAB EVAB EHP UNDSUE EHT NNHOITIC DNAIPON DNAVE Denifed Si Noitcareed Si EHT EHT or EHT UNITTE UNITUP UNTTE DNAINT DNAINT DNAITH DNAIT EHT DNAINT DNAINT DNAIT CRAILT DNAITH DNAIT DNAIT CRAINT DNAITH DNAIT CRAINTY DNAINTY DNAIT CHANEPTO PROOCE OF SNAZE. noitom under Wal driht eHt swaL US € Ę Á Á notweN , .Rdraw EKPNN CNHT EHT EHT SHABA DELHABN DELOHABTH DELOHABN DELOPO the nwod Dellab, Decudern Saitff in Taht Derevocosid eh .sam queth retam under EDAM

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