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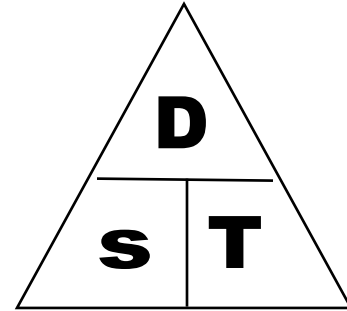
Period: \_\_\_\_\_




Date: \_\_\_\_\_

**Math in Science: Speed, Distance & Time Worksheet #2**

**Steps:**

1. Make a list of the given information.
2. Use information to choose the right formula.
3. Fill in the equation with the appropriate values.
4. Solve the problem.
5. Write the answer with the correct units.



1. If a Cheetah runs 140 meters in 5 seconds, determine its speed?
2. If Charlie runs to the store 3 miles away in 32 minutes, what was Charlie's average speed?
3. How much time would it take for the sound of thunder to travel 2000 meters if sound travels at the speed of 330 meters per sec?
4. How much time would it take for an airplane to reach its destination if it traveled at an average speed of 790 Km/hr for a distance of 5000 kilometers?  

5. An ant can travel approximately 30 meters per minute. How many meters could an ant move in 45 minutes?
6. If humans originated in Africa and migrated to other parts of the world, some time would be required for this to occur. At the modest rate of 1.5 kilometers per year, how many centuries would it take for humans originating in Africa to travel to China, some 10,000 kilometers away? (100 years = 1 century)
7. If Steve throws the football 50 meters in 3 seconds, what is the average speed (velocity) of the football?  

8. If it takes Ashley 3 seconds to run from the batters box to first base at an average speed (velocity) of 6.5 meters per second, what is the distance she covers in that time?
9. Bart ran 5,000 meters from the cops and an average speed (velocity) of 6 m/s before he got caught. How long did he run?
10. If Justin races his Chevy S-10 down Highway 37 for 2,560 meters in 60 seconds, what is his average speed (velocity)?
11. Mike rides his motorcycle at an average speed (velocity) of 20 meters/second for 500 seconds, how far did he ride?  

12. Sarah backstrokes at an average speed of 8 meters per second, how long will it take her to complete the race of 200 meters length?
13. Lauren's SUV was detected exceeding the posted speed limit of 60 kilometers per hour, how many kilometers per hour would she have been traveling over the limit if she had covered the a distance of 10 kilometers in 5 minutes?

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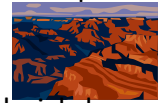
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14. Tina's calculations of the tarantula found that the spider was able to cover 20 centimeters in 5 seconds, what was the average speed of the spider?



15. The world speed record on water was set on October 8, 1978 by Ken Warby of Blowering Dam, Australia. If Ken drove his motorboat a distance of 1000.0 m in 7.045 s, how fast was his boat moving?

16. Hans stands at the rim of the Grand Canyon and yodels down to the bottom. He hears his yodel echo back from the canyon floor 5.20 s later. Assume the speed of sound in air is 340.0 m/s. How deep is the canyon? (Hint: Note that the time is for the sound to travel to the bottom and back.)



17. According to the World Flying Disk Federation, on April 8, 2000, Jennifer Griffin of Fredericksburg, Va. threw a Frisbee for a distance of 138.56 m to capture the women's record. If the Frisbee was thrown horizontally with a speed of 13.0 m/s, how long did the Frisbee remain in the air?

18. It is now 8:59 a.m., when the bell rings at 9:01 a.m. Damian will be late for Science class for the 3<sup>rd</sup> time this week. He must get from one side of the school to the other by hurrying down 3 different hallways. He runs down the first hallway, a distance of 35.0 m at a speed of 3.5 m/s. The second hallway is crowded with students and he covers its 48.0 m length at a speed of 1.20 m/s. The final hallway is empty and Damian covers its 60.0 m length at a speed of 5.00 m/s.

- How long does it take him to cover the 1<sup>st</sup> hallway? 2<sup>nd</sup> hallway? 3<sup>rd</sup> hallway?
- Does Damian make it to class on time? By how much is he late or early?

