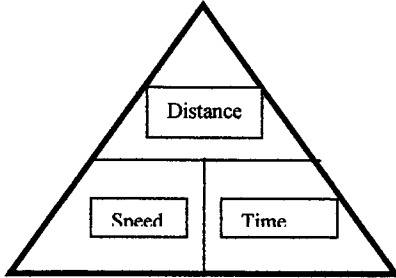


Speed and Velocity Worksheet

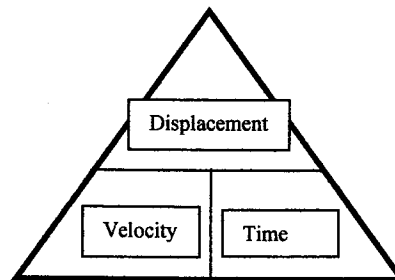
Name _____

Period _____

Use the following equations to answer the following speed questions.



$$\begin{aligned} \text{Distance} &= \text{Time} \times \text{Speed} \\ \text{Time} &= \text{Distance} / \text{Speed} \\ \text{Speed} &= \text{Distance} / \text{Time} \end{aligned}$$



$$\begin{aligned} \text{Displacement} &= \text{Time} \times \text{Velocity} \\ \text{Time} &= \text{Displacement} / \text{Velocity} \\ \text{Velocity} &= \text{Displacement} / \text{Time} \end{aligned}$$

1. If Paul throws the football 50 meters in 3 seconds, what is the average speed of the football?
2. If it takes Cassie 3 seconds to run from the batters box to first base at an average velocity of 6.5 meters per second, what is the displacement she covers in that time?
3. Steve ran 5000 meters from a swarm of bees at an average speed of 6 meters/second before he dove into pond. How long did he run?
4. If Justin races his Ford F-150 down east on Route 1 for 2560 meters in 60 seconds, what is his average velocity?
5. Mike rides his motorcycle at an average speed of 20 meters/second for 500 seconds, how far did he ride?
6. Brittany backstrokes at an average speed of 8 meters per second, how long will it take her to complete the race of 200 meters length?
7. Joshua's Subaru Forrester was detected exceeding the posted speed limit of 60 kilometers per hour, how many kilometers per hour would he have been traveling over the limit if he had covered the a distance of 10 kilometers in 0.1 hours? If you want to express this value as a velocity, what other information would you need to provide?
8. Kristen's calculations involving lobsters found that the average lobster, when placed on the ground, was able to cover 20 centimeters in 5 seconds, what was the average speed of the lobster?