

Formula Challenge Name _____

What do the following units represent? Use D for distance, T for time, S for speed, or A for acceleration.

_____ 1. 14 km _____ 4. 6 hours _____ 7. 14 mi _____ 10. 1.4 m

_____ 2. 30 m/s _____ 5. 12 cm/s² _____ 8. 3.2 sec _____ 11. 6 cm/min/sec

_____ 3. 34 min _____ 6. 150 mph _____ 9. 25 ft _____ 12. 3 km/hr/sec

Solve each problem! Be sure to show your work!

13. Goldie Goldfish, a speed swimmer, loves to race around the park's pond, which is 0.5 miles around. If she

can swim 20 laps around the track in 2 hours, what is her average speed?

14. It takes Stu, a slimy slug, 20 minutes to travel from his favorite bush to the local trash can (a trip of 30

meters), how far can he travel in 1 hour (60 minutes)?

15. At exactly 2:00 pm, Speedy the Snail crawls onto a meter stick at the 10 cm mark. If he reaches the 65 cm

mark at exactly 2:10 pm, what is his speed?

16. If it takes Leaping Louie 5 minutes to jump 3 blocks, how long will it take for him to jump 15 blocks?

17. If Bert the Bat travels eastward at 40 mph with a tail wind of 6 mph, what is his actual speed?

18. Toon Train is traveling at the speed of 10 m/s at the top of a hill. Five seconds later it reaches the bottom

of the hill and is moving at 30 m/s. What is the rate of acceleration of Toon Train?

19. Pete the Penguin loves to sled down his favorite hill. If he hits a speed of 50 m/s after 5 seconds, what is

his rate of acceleration? Hint: He starts at 0 m/s at the top of the hill.