

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

### Velocity Practice Problems

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*You MUST show your work. Showing your work has four steps: Write the formula, plug in the numbers, do the math, and label your answer. Circle your answer too!*

If you're missing <b>Velocity</b> use...	If you're missing <b>Distance</b> use...	If you're missing <b>time</b> use...
$V = \frac{D}{t}$	$D = (V)(t)$	$t = \frac{D}{V}$

1. Steven skateboards down the sidewalk in front of the school, traveling at 24 km/h. **How much time** would it take him to travel 6.0 km?
2. Jacob and Jake are in a 3-legged race at Fall Fair. **How far** could they run if they ran 36 km/h for 5 min?
3. If you ran 15 km/h for 20 min, **how much distance** would you cover?
4. Tyler rushes to McDonald's for lunch. **How much time** would it take Tyler to walk 2 km to McDonalds's for an apple fritter if he walked at a rate of 4.5 km/h?
5. Mike chucks a water balloon at a big, mean looking guy at the park. Running for his life, he travels 100m in 9.83s. What was his **velocity**?
6. Sydney arrives late to class and sneaks quietly to her seat moving 8.2 m in 12.8 s. Find her **velocity**.
7. For her birthday, Stacey gets a shiny new bike with a horn and a basket on the front. She wants all her friends to see and so begins riding up and down her street. What is her **velocity** if she goes 40.5 m in 5.6 s?

8. Alyssa sees a guy at the dance that she has a crush on and decides to chase him and ask him out on a date. Find her **velocity** if she runs 80.3 m in 4.6 s.
  
9. The night before a big science test, Youssef goes to see "Transformers." Now he doesn't want to take the test and is dragging himself to class. If his speed is 0.2 m/s, **how far** will he move in 28 s?
  
10. While on a weekend trip to New York City, you spot Angelina Jolie and just HAVE to meet her. You run after her at 2.7 m/s. **How far** will you have moved in 15.9 s?
  
11. Anthony struts down the hall toward class at 0.1 m/s. In 3 minutes, **how far** would he travel?
  
12. While showing off for some girls at the skate park, Kyle crashes. After the crash he tumbled 30 m in 4.2 s. What was his **velocity**?
  
13. Matt stays after class to work on his science homework and is late for hockey practice. He decides to run so the coach won't be mad. If the locker room is 300 m from the classroom and Jeff can run a surprising 25 m/s, **how long** would it take him to get there?
  
14. While waiting for his Mom to come out of the hairdresser's, Joe accidentally puts the car in gear and it begins to roll forward. **How far** would the vehicle travel if it moved at 34 m/s for 2.5 s?