

Practice Problems: Acceleration

Directions: Complete the table below.

	Final velocity v_f	Initial velocity v_i	$v_f - v_i$ Δv	Time (t)	$a = \frac{\Delta v}{t}$
1	26 m/s	20 m/s		6 s	
2	0 km/s	12 km/s		4 s	
3	8 m/s	3 m/s		2 s	
4	46.4 m/s	27.3 m/s		11 s	
5	5 m/s	15 m/s		5 s	

Complete the following word problems.

6. A paperboy rode his bike at 3 m/s. After being chased by a dog for 8 seconds, he was traveling 6 m/s. What is his acceleration?

7. A pumpkin is dropped, after 5 seconds, its velocity is 47 m/s. What is its acceleration?

8. A soccer player is running at 6 m/s. He then stumbles over an opponent's foot falling, and rolling to a stop. This took 4 seconds. What was his acceleration?

9. A skateboarder fell doing a jump. She got up and after 5 seconds, returned to a velocity of 5 m/s. What is her acceleration?