



4. Calculate the free fall **acceleration** of the ride.

Variables ( What you know/ need to know)	
Formula	
Substitution	
Calculations & Answer	

How does your value for free fall acceleration compare to the acceleration due to gravity,  $-9.8 \text{ m/s}^2$ ?

5. Calculate the **velocity** of the ride just before the brakes are applied.

Variables ( What you know/ need to know)	
Formula	
Substitution	
Calculations & Answer	