

Acceleration

1. A train reduce its speed from 46 m/s to 14 m/s in 4 seconds. Calculate an **average acceleration**.



2. A skydiver accelerates downward at a rate of 10 m/s^2 . How much his **velocity increase** in 1.2 seconds?



3. A biker accelerates at 3 m/s^2 . **How long** will it take him to increase his velocity from the rest to 12, 6 m/s?



4. The object in the sky is accelerating at 2 m/s^2 . It increases its velocity by 1.8 m/s. **For how long** does the object accelerate?



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5. The change of velocity of an object over 4 seconds shown in the graph. What is the **acceleration** of the object? **How many times faster** does the object move at $t=4$ s than at $t=0$ s?



