

## Acceleration

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

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

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

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

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## Acceleration

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  $t=4\text{ s}$  than at  $t=0\text{ s}$ ?

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