

Roller Coaster Physics Equations

A roller coaster cart is sat waiting for passengers to board. It has a mass of **750kg**.

1. Calculate the weight of the roller coaster cart.

.....

After the passengers have boarded the roller coaster starts moving and **10 seconds** later it has reached a speed of **15m/s**.

2. Calculate the acceleration of the roller coaster.

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The total mass of passengers that boarded the roller coaster is **370kg**.

3. Calculate the force needed to make the acceleration.

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The roller coaster cart then makes an **18m** climb up a steep slope.

4. Calculate the change in gravitational potential energy of the cart.

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Roller Coaster Physics Answers

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