Broad overview of linear motion:

<https://www.youtube.com/watch?v=ZM8ECpBuQYE&t=243s>

Check Understanding:

1) Do I know what acceleration is defined as?

2) What is the formula for linear acceleration?

3) What are the units for acceleration?

Practice Problems:

Complete #2-5 of the probelms in the video:  Try to work first then view the solution.

<https://www.youtube.com/watch?v=Po7li9JbEsQ&t=310s>

2) A car accelerates from rest to 48m/s in 6s.  What is the average Acceleration of the car and how far did it travel in that time?

3) A motorcycle speed up from 24m/s to 60m/s and travels a distance of 500m within that period.  What is the average acceleration?  How long did it take him to reach 60m/s?

4) A truck accelerates from 24m/s at a constant rate of 2.1m/s/s.  A) How far did it travel during this time period?  B)  What is the final speed of the car at the end of the 15s?

5)  A van travels at a constant speed of 32m/s for 5 seconds. It begins to accelerate ata rate of 3/ms/s for 7 seconds and then maintains the speed for another 18s.  Finally , it slows down to rest in 22 seconds.  How far did the van travel during the course of this entire problem?

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