

## 1.4 Relating Two Quantities Using Graphs

Mar 30-9:25 PM

- Grows as more air goes into
- too much air - it pops
- it went bye bye fast
- the balloon got thinner
- color faded

Mar 31-10:13 AM

Watch short video clip:

<http://youtu.be/cTNZveYRI1Q>

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independent variable: a variable that doesn't need any help

dependent variable: relays on something to change

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dependent:

- the person
- ~~the size of balloon~~
- the actual balloon

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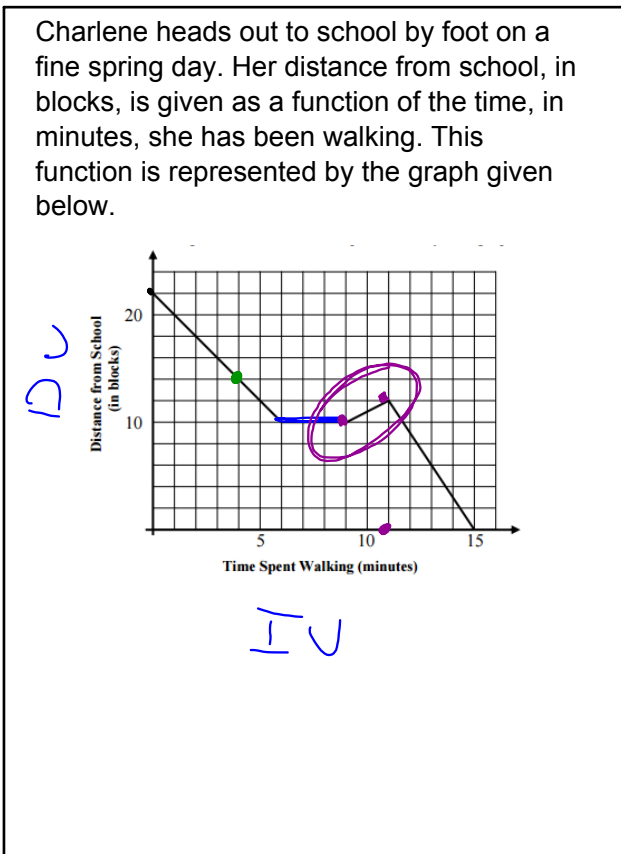
independent:

- the air
- ~~the time~~
- starting size

depend. size of ball.

Time independ.

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(d) Charlene then walks to a subway station before heading to school on the subway (a local). How many blocks did she walk to the subway?

2 blocks

(e) How long did it take for her to get to school once she got on the train?

4 minutes

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(a) How far does Charlene start off from school?  
 22 blocks

(b) What is her distance from school after she has been walking for 4 minutes?  
 14 blocks

(c) After walking for six minutes, Charlene stops to look for her subway pass. How long does she stop for?  
 3 minutes

Mar 30-9:37 PM

Andrew has a new job at the local pizza store as a delivery boy. The following graph shows one of his deliveries he made. Analyze the graph and answer the following questions.

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(a) How long was the entire trip?  
 15 min

(b) If he arrived at the house after 4 minutes, how far away was the house from the pizza place?  
 9 blocks

(c) Why might Andrew have stopped 3 times for 1 minute?

(d) Was Andrew's trip longer going to the house or coming back?

Mar 30-9:52 PM

Sketch a graph of the speed of a city bus on a daily route. Label each section.

- A - bus pulls away from a stop and increases speed
- B - bus is at a constant speed between stops
- C - bus is stopped
- D - bus increases speed after stopping

Mar 31-11:11 AM