

# Chapter Review

People Working at Site	
Type of work	Number
plumbers	4
electricians	3
carpenters	8
drywallers	5
painters	6
cleaners	3
tile setters	2
technicians	4

1. Joanne created this chart about people working at a housing construction site.

a) Use paper or graphing software. Graph the data in two different ways. Justify your choices.

*e.g., circle graph, because the data is part of a whole; bar graph, because I can compare the heights of the bars.*

b) Use your graphs to answer these questions.

• How many workers are in the largest three groups?

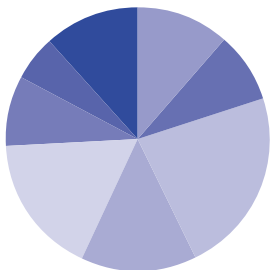
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• Which two groups make up about half the people?

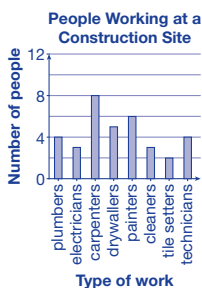
*carpenters and painters*

• About what percent of the people are either drywallers or painters? about *e.g., 30%*

1. a) *e.g.,*  
People Working at a Construction Site



- plumbers
- electricians
- carpenters
- drywallers
- painters
- cleaners
- tile setters
- technicians



2. Chad created this graph for customers at his computer store.

a) What percent of the charge does this battery have left after each length of time?

25 min *e.g., about 83%*

5 min *e.g., about 95%*

90 min *e.g., about 40%*

100 min *e.g., about 35%*

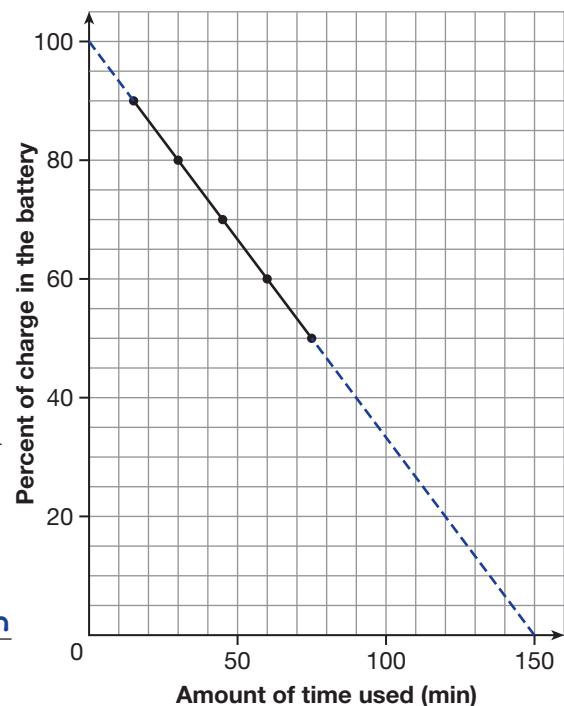
b) How long does it take for the battery to lose all its charge?

*e.g., after about 150 min*

c) What trend does the graph show?

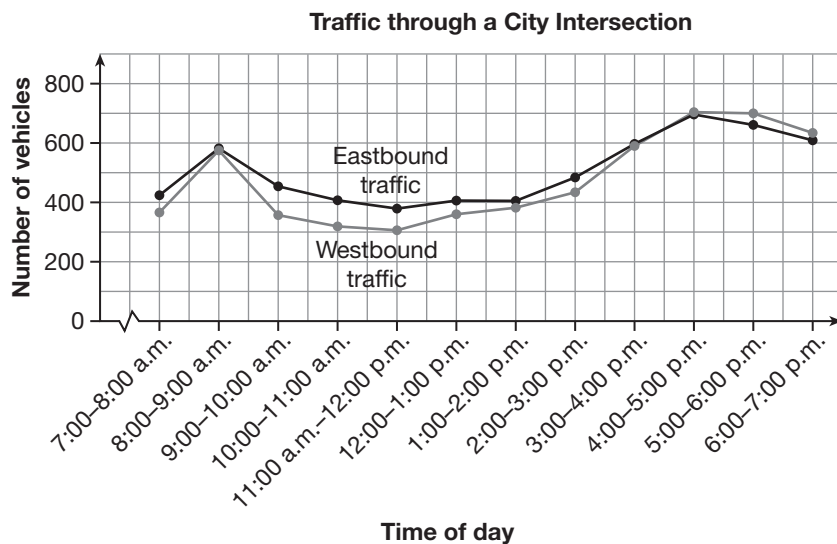
*e.g., The battery's charge decreases as the amount of time it is used increases.*

Charge in a Laptop Battery



3. Jon and some friends counted the traffic at an intersection one day.

a) When is traffic heaviest? *e.g., from 4 p.m. to 6 p.m.*



b) When is the number of vehicles travelling in both directions about the same?

*e.g., between 8 a.m. and 9 a.m. and between 3 p.m. and 5 p.m.*

c) Did you interpolate or extrapolate for Part b)?

*I interpolated, e.g., I estimated data between points on the graph.*

d) How does the graph show each point of view?

- From 7:00 a.m. to 4:00 p.m. eastbound traffic is heavier than westbound traffic. So the traffic lights should be set to stay green longer.

*e.g., The line drawn for eastbound traffic is above the line drawn for westbound traffic during those 9 h.*

- The best time to schedule road repairs is from 9 a.m. to 2 p.m.

*e.g., The least traffic in either direction occurs during those 5 h.*

e) Describe the trend. Why do you think this happens?

*e.g., The traffic increases during morning rush hour until 8:00 to 9:00 a.m., when people are driving to work. It decreases until early afternoon. Then it increases until about 5:00 p.m. or 6:00 p.m., when people are driving home from work.*

