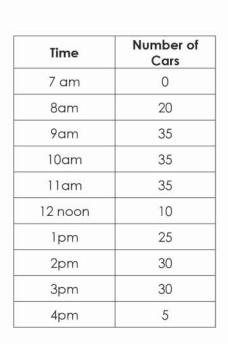
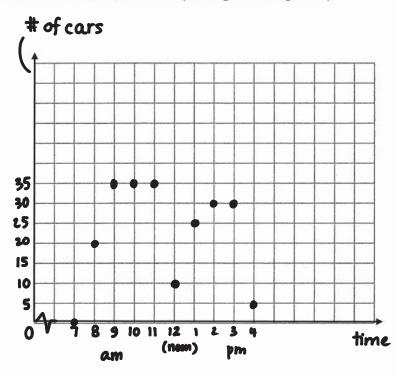
5.6 Sketching and Interpreting Graphs

Construct Understanding

Example 1: The following table shows the number of cars in a school parking lot during a day.





Independent Variable <u>time</u> Dependent Variable <u># of cars</u>

(y-axis)

Does it make sense to join the points? No, there is no data between them

Domain { 7,8,9,10,11,12,1,2,3,4 } Range { 0,5,10,20,30,35 } pm or am pm { 1,2,3,4,7,8,9,10,11,12 }

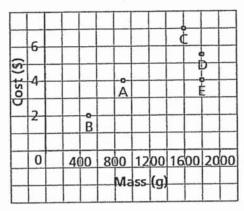
Discrete Data - Only have data for specific points (no ex: can't have half of a car

opposite is continuous data.

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Example 2: Each point on this graph represents a bag of popping corn. Explain the answer to each question.

Costs and Masses of Various Bags of Popcorn



a) Which bag is the most expensive? What does it cost?

b) Which bag has the least mass? What is this mass?

c) Which bags have the same mass? What is this mass?

d) Which bags cost the same? What is this cost?

e) Which of the bags C or D has the better value for money?

$$C: \frac{\$7}{16009} = \$0.004375/9$$

f) Does this graph represent a function?

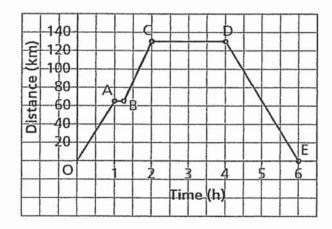
$$D: \frac{$5.50}{18009} = $0.0031/9$$

better value more (g) for less (\$)

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Example 3: The graph represents a day trip from Winnipeg to Winkler Manitoba. The distance between the cities is 130 km.

Describe the journey for each segment of the graph.



Segment	Graph	Journey
O – A	as time increases, so does distance	travels 65 km in 1 hr
A – B	as time increases, distance remains same	stops for 15 minutes
B – C	as time increases, so does distance	travels another b5 km to get to Winkler in 45 minutes
C – D	as time increases, distance remains same	stops for 2 hours
D – E	as time increases, distance decreases	turned around and drove home; drove 130 km in 2 hours

Total driving time = 6 hours

Total distance = 130 km + 130 km = 260 km

(there) (back) PC 10

Practice: p.281#3-10 and p.294#11&12

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