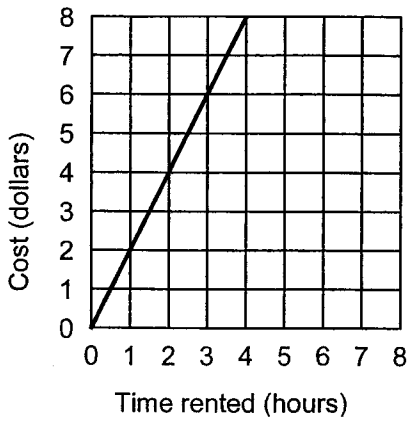
PA8-32: Interpreting Graphs

Answer these questions in your notebook.

1.



The graph shows the cost of renting a pair of skates.

a) If you rented skates for 2 hours, how much would you pay?

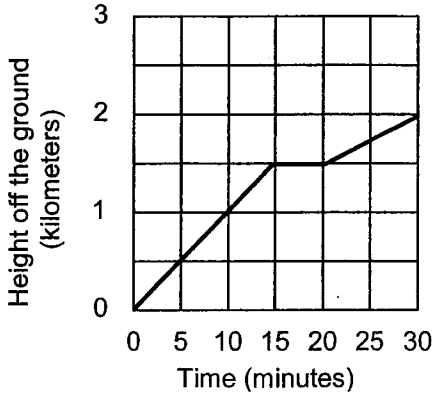
b) How much does the cost rise every hour?

c) How much would you pay to skate for 5 hours?

d) If you paid 6 dollars, how long would you be able to skate for?

e) How much would you pay to skate for 30 min?

2.



To reach the top of a ski mountain, Kathy takes two different chairlifts.

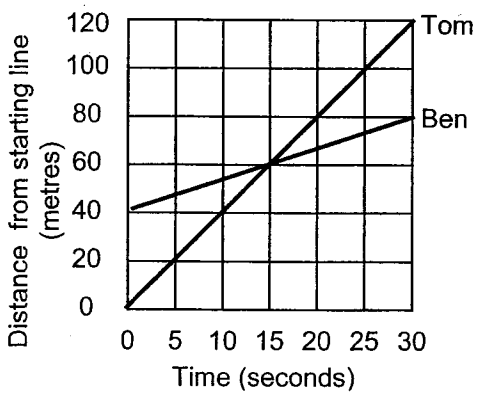
a) How high did the first chairlift take her?

b) How high off the ground will Kathy start skiing?

c) How long did it take Kathy to switch between chairlifts? How do you know?

d) Did the two chairlifts travel at the same speed?

3.



Ben and Tom run a 120 m race.

a) How far from the start was Tom after 10 seconds?

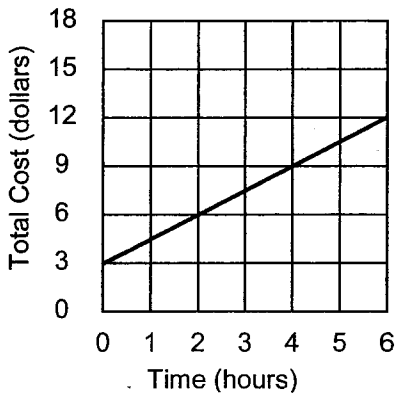
b) How far from the start was Ben after 15 seconds?

c) Who won the race? By how much?

d) How much of a head start did Ben have?

e) How many seconds from the start did Tom overtake Ben?

4.



The graph shows the cost of renting a bike from Mike's store.

a) How much would you pay to rent the bike for...
i) 2 hours ii) 4 hours iii) 3 hours

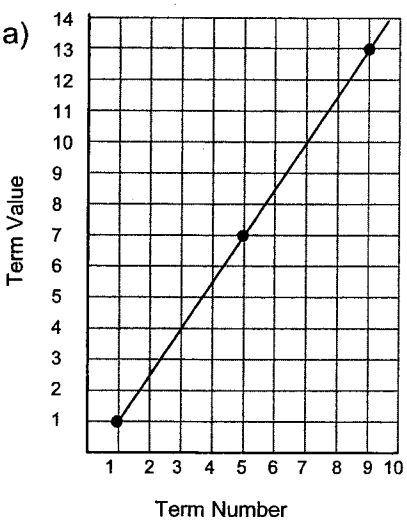
b) How much do you pay for the bike before you have even ridden it?

c) Dave's store charges $3.00 an hour for a bike. Whose store would you rent from if you wanted the bike for 3 hours?

PA8-33: Using Graphs to Investigate Patterns

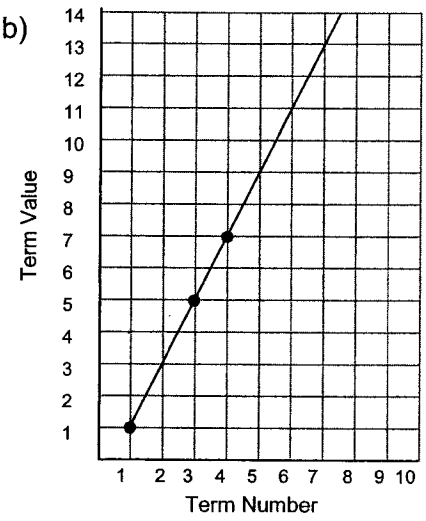
1. Use the graph to find the missing values in the sequence:

a)



Term Number	Term Value
1	1
3	
5	7
	10
9	13

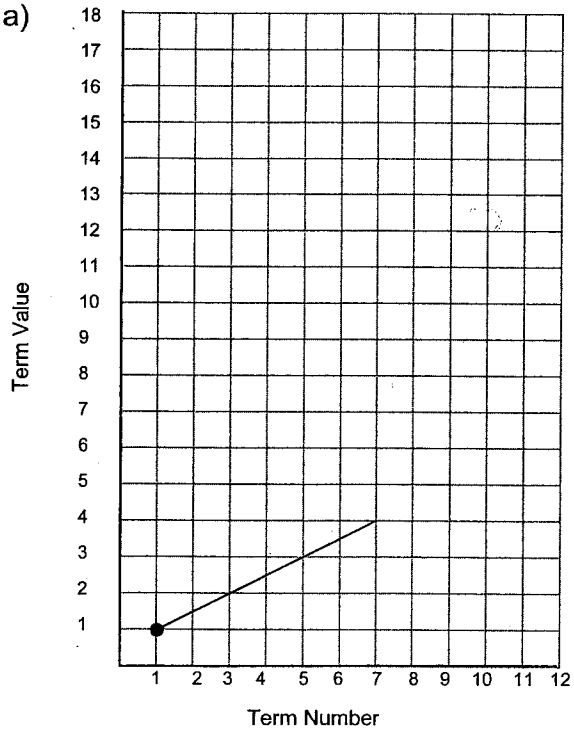
b)



Term Number	Term Value
1	1
	3
3	5
4	7
5	

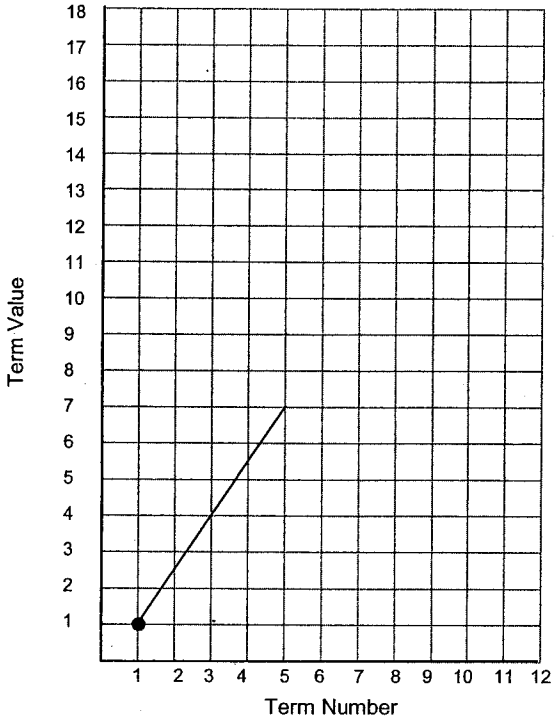
2. Extend the line to find the value of the 11th term:

a)



Value of the 11th term _____

b)



Value of the 11th term _____

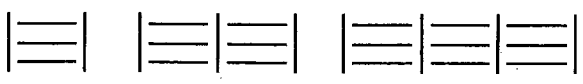
Answer the remaining questions in your notebook.

3. For each sequence below make a table of values that matches the term number and the term value. Draw a graph for your table and extend the graph to find the value of the 7th term:

   a) 2, 5, 8, 11

   b) 1, 3, 5, 7

4. Draw a graph to show how many toothpicks would be needed for the 8th figure:

a)

b)