# Assessment Task



## TI-15 Explorer™: A Tap on the Shoulder

1. Complete the tables below by finding a number pattern:

a)

Step	1	2	3	4	5
Value	3	6	9	12	

b)

Step	1	2	3	4	5
Value	0.5	1	1.5	2	

c)

Step	5	10	15	20	25
Value	10	20	30	40	

d)

Step	2	4	6	10	13
Value	3	6	9	15	

e)

Step	5	10	15	20	23
Value		5		10	

- 2. For each of the number patterns above:
  - a) Describe how you found the missing values

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_					
c) Find a rule us	ing symbols tha	t describes the	relationship bet	ween the Step 1	number and
the Value:					
Jse the rule to c	omplete the tal	ble below:			
Jse the rule to c	•		ep number		
	•		ep number		
	•		ep number 5	11	21

(using the OP key) that would calculate the rule:
Value equals three times the step value plus two



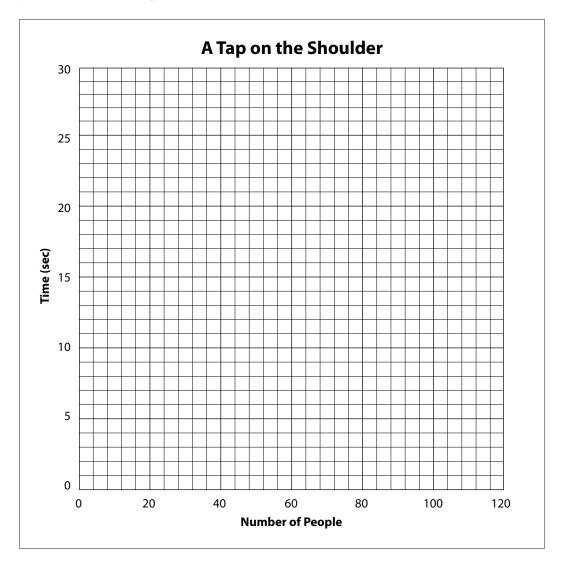
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5. The following data was recorded from a class of students who performed the Tap on the Shoulder activity.

Number of Students	5	10	15	20	25
Time (sec)	1.45	2.7	3.95	5.2	6.45

a) Graph this data on the grid below:



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b)	Use this graph to predict the amount of time it would take to pass on a tap to 100 people:
c)	Find a rule in words and symbols that describes the relationship between the number of students in a line and the time it takes to pass on a tap:
d)	Use the rule you found in c to make a prediction of how long it would take to pass a tap on to 100 people:
e)	Discuss how close this is to the prediction you made using a graph. Write down any reasons for any difference between these predictions: