

## Lesson 6 - Graphs of Linear Relations

## Make a table of values from a graph

Example 1

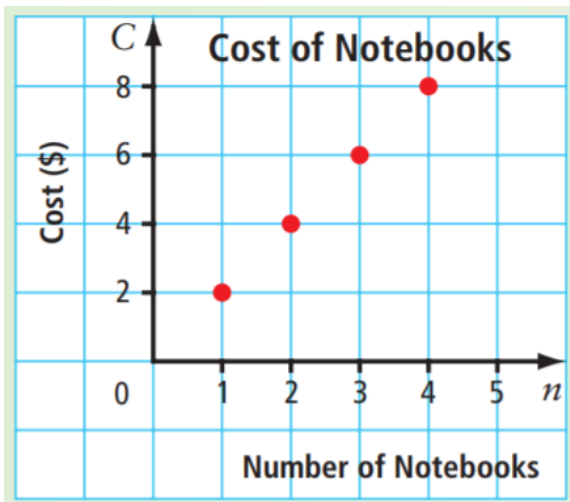


Table of values

<del>#notebooks</del>	Cost (\$)
1	2
2	4
3	6
4	8

Is this data discrete?

Yes

# Make a table of values from a graph

Example 2

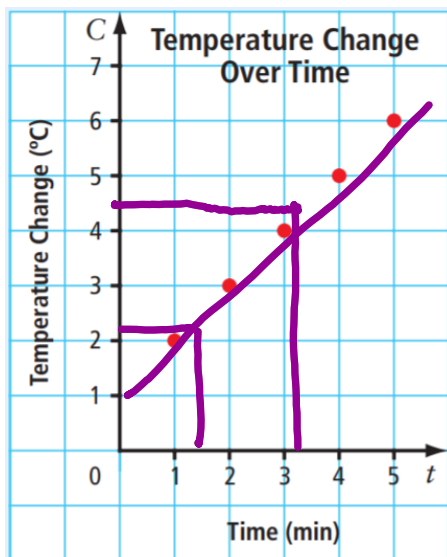


Table of values

Time	Temp $\Delta$
1	2
2	3
3	4
4	5
5	6

Is this data discrete?

**No!**

# Graph a table of values

## Example 1

Sky sells magazine subscriptions. She receives \$20 for every five subscriptions she sells. The table shows the relationship between the number of subscriptions she sells and the pay she receives.

<b>Number of Subscriptions, <math>n</math></b>	0	5	10	15	20	25
<b>Pay, <math>P</math> (\$)</b>	0	20	40	60	80	100

What is an expression for her *pay* in terms of the *number of subscriptions*?

$4n$

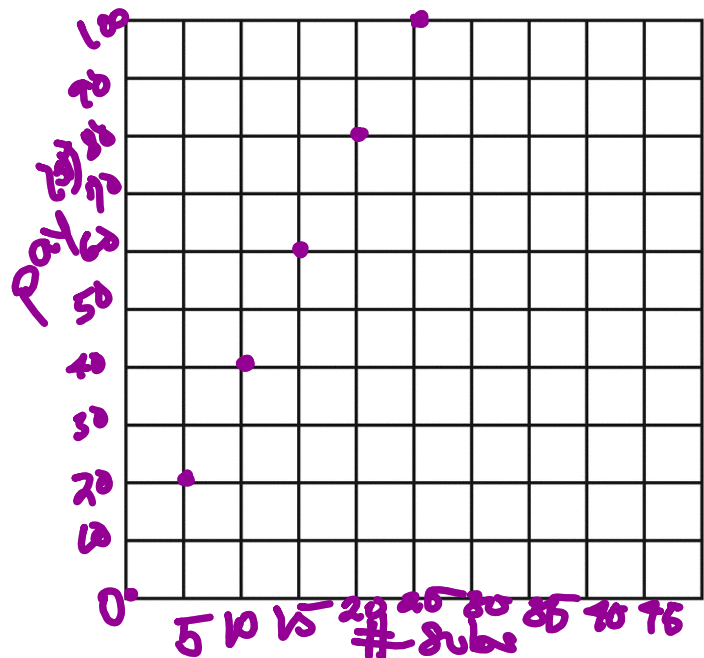
Magazine Subscriptions

Graph the ordered pairs from the table of values

- label axes ✓
- start at zero ✓
- consistent increments ✓
- title ✓

Is this data discrete?

Yes!



## Graph a table of values

### Example 2

Fill in the table using the linear relation  $a = 2x + 1$

$x$	0	1	2	3	4	5
$a$	1	3	5	7	9	11

Graph the ordered pairs from your table of values

- label axes ✓
- start at zero ✓
- consistent increments ✓

~~title~~

→ No idea what this data is!

