

# Identifying independent and dependent quantities from tables and graphs: Worksheet 12.1

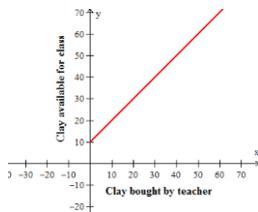
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Identify the dependent and independent variables in the following problems represented by tables and graphs.

1. A freight train moves at a constant speed. The distance  $y$  in miles that the train has traveled after  $x$  hours is shown in the table.

Time in hours ( $x$ )	0	1	2	3
Distance in miles ( $y$ )	0	45	90	135

- 2.

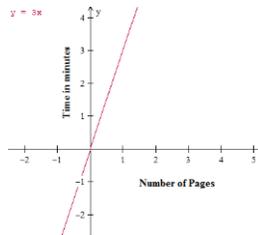


- 3.

The Distance traveled in miles versus Train fare in dollars is shown in the table below.

Distance in miles ( $x$ )	0	1	2	3
Train fare in dollars ( $y$ )	10	12	14	16

- 4.



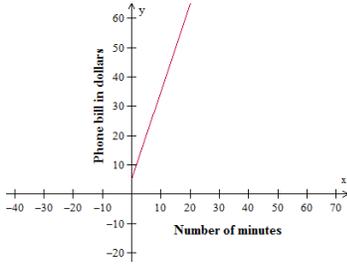
5. The number of pages typed versus the time taken in minutes is shown in the table below.

Number of pages ( $y$ )	1	2	3	4
Time in minutes ( $x$ )	4	8	12	16



# Solutions: Worksheet 12.1

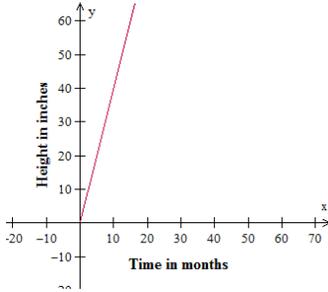
6.



7. Time in years versus the interest in dollars is shown in the table below.

Time in years (x)	1	2	3	4
Interest in dollars (y)	12	24	36	48

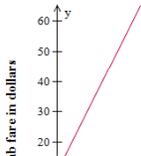
8.



9. Time in years versus the weight in pounds is shown in the table below.

Time in years (x)	0	1	2	3
Weight in pounds (y)	0	45	90	135

10.



## Solutions: Worksheet 12.1

1. Independent variable is Time in hours; Dependent variable is Distance in miles
2. Independent variable is Clay bought by teacher; Dependent variable is Clay available for class
3. Independent variable is Distance traveled in miles; Dependent variable is Train fare in dollars.
4. Independent variable is Number of pages; Dependent variable is Time in minutes.
5. Independent variable is Time in years; Dependent variable is Length in inches.
6. Independent variable is Number in minutes; Dependent variable is Phone bill in dollars.
7. Independent variable is Time in years; Dependent variable is Interest in dollars.
8. Independent variable is Time in months; Dependent variable is Height in inches.
9. Independent variable is Time in years; Dependent variable is Weight in pounds.
10. Independent variable is Distance in miles; Dependent variable is Cab fare in dollars.

