

Name: Class:

Write a two-variable equation

- a. Charles is a doctor and works in the general hospital. He usually have about 11 appointments everyday. Let d stand for the number of days, and a stand for the total number of appointments. Write an equation that shows the relationship between d and a .



- b. Write an equation that shows the relationship between t and s from the table below.

t	s
15	11
16	12
17	13
18	14
19	15



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- a. Charles is a doctor and works in the general hospital. He usually have about 11 appointments everyday. Let **d** stand for the number of days, and **a** stand for the total number of appointments. Write an equation that shows the relationship between **d** and **a**.

Let's try to interpret the problem.

In the above description, you see that in this relationship, **d** is the input and **a** is the output.

This is because it is depending on the number of days.

Therefore, you can find the output **a**, by multiplying 11 by **d**.

So, the equation can be written as $a = 11d$.

Hence the relationship between **a** and **d** is $a = 11d$



- b. Write an equation that shows the relationship between **t** and **s** from the table below.

t	s
15	11
16	12
17	13
18	14
19	15

Firstly, the table shows the relationship between **t** and **s**, with **t** being the input and **s** the output

Secondly, Let's find the rule that is used to get the values in the **s** column

You see that in each row of table, the value in the **s** column is 4 less than the values in the **t** column.

So, the rule is to subtract 4 from every value.

Finally, let's write the equation that shows the relationship between **t** and **s**

The equation can be written as $s = t - 4$

