

Name \_\_\_\_\_

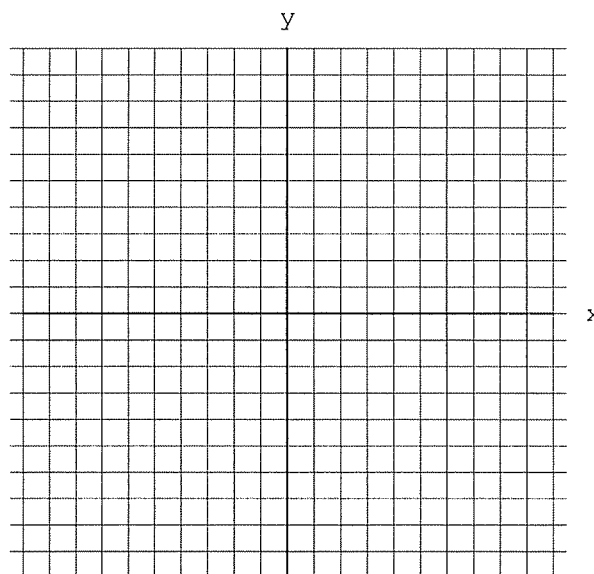
[06-04-24-T7]  
*Direct Proportion*

■ The table shows a relationship between  $x$  and  $y$ .

[1] Compute  $\frac{y}{x}$  and fill in the bottom row of the table.

$x$	0	1	2	3	4	5
$y$	0	2	4	6	8	10
$\frac{y}{x}$						

- a) Is  $y$  directly proportional to  $x$ ?
- b) What is the constant of proportionality.
- c) Write  $y$  as a function of  $x$ .
- d) What is the value of  $y$  when  $x = 10$  ?
- e) If  $-20 < x < 20$ , what is the range of the values of  $y$ ?
- f) Graph the function you wrote in (c) above.

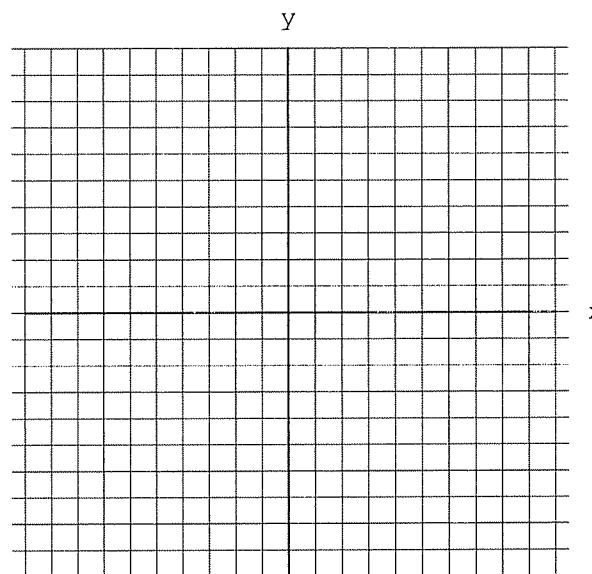


■ The table shows a relationship between  $x$  and  $y$ .

[2] Compute  $\frac{y}{x}$  and fill in the bottom row of the table.

<b>x</b>	0	1	2	3	4	5
<b>y</b>	0	4	8	12	16	20
$\frac{y}{x}$						

- a) Is  $y$  directly proportional to  $x$ ?
- b) What is the constant of proportionality.
- c) Write  $y$  as a function of  $x$ .
- d) What is the value of  $y$  when  $x = 10$  ?
- e) If  $-20 < x < 20$ , what is the range of the values of  $y$ ?
- f) Graph the function you wrote in (c) above.

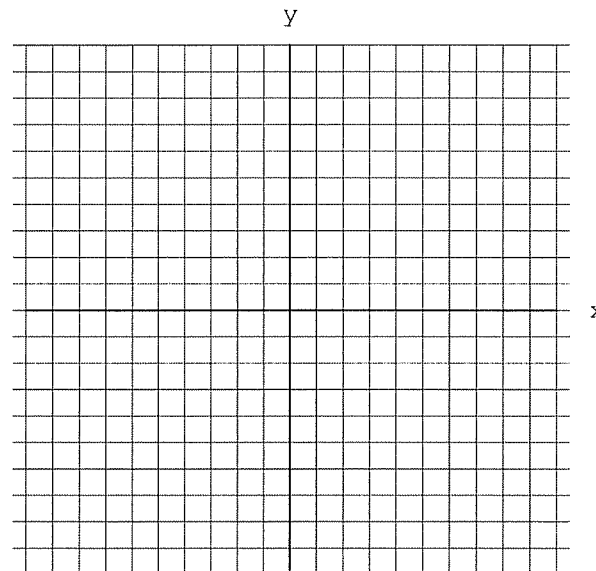


■ The table shows a relationship between  $x$  and  $y$ .

[3] Compute  $\frac{y}{x}$  and fill in the bottom row of the table.

$x$	0	1	2	3	4	5
$y$	0	$\frac{1}{2}$	1	$\frac{3}{2}$	2	$\frac{5}{2}$
$\frac{y}{x}$						

- a) Is  $y$  directly proportional to  $x$ ?
- b) What is the constant of proportionality.
- c) Write  $y$  as a function of  $x$ .
- d) What is the value of  $y$  when  $x = 10$  ?
- e) If  $-20 < x < 20$ , what is the range of the values of  $y$ ?
- f) Graph the function you wrote in (c) above.

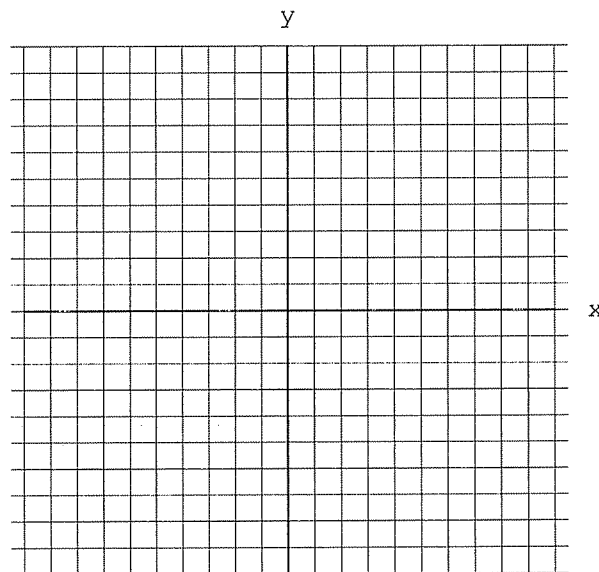


■ The table shows a relationship between  $x$  and  $y$ .

[4] Compute  $\frac{y}{x}$  and fill in the bottom row of the table.

<b>x</b>	-4	-2	-1	1	2	4
<b>y</b>	-8	-4	-2	2	4	8
$\frac{y}{x}$						

- a) Is  $y$  directly proportional to  $x$ ?
- b) What is the constant of proportionality.
- c) Write  $y$  as a function of  $x$ .
- d) What is the value of  $y$  when  $x = 10$  ?
- e) If  $-20 < x < 20$ , what is the range of the values of  $y$ ?
- f) Graph the function you wrote in (c) above.

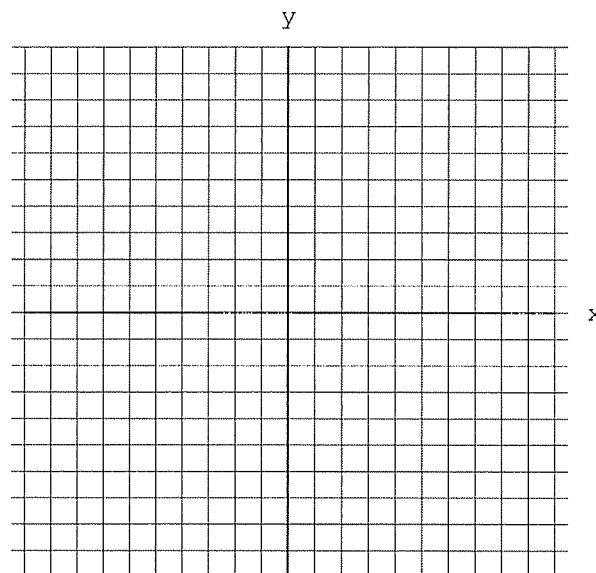


■ The table shows a relationship between  $x$  and  $y$ .

[5] Compute  $\frac{y}{x}$  and fill in the bottom row of the table.

<b><math>x</math></b>	-4	-2	-1	1	2	4
<b><math>y</math></b>	8	4	2	-2	-4	-8
$\frac{y}{x}$						

- a) Is  $y$  directly proportional to  $x$ ?
- b) What is the constant of proportionality.
- c) Write  $y$  as a function of  $x$ .
- d) What is the value of  $y$  when  $x = 10$  ?
- e) If  $-20 < x < 20$ , what is the range of the values of  $y$ ?
- f) Graph the function you wrote in (c) above.



■ The table shows a relationship between  $x$  and  $y$ .

[6] Compute  $\frac{y}{x}$  and fill in the bottom row of the table.

<b><math>x</math></b>	0	2	4	6	8	10
<b><math>y</math></b>	0	$\frac{6}{7}$	$\frac{12}{7}$	$\frac{18}{7}$	$\frac{24}{7}$	$\frac{30}{7}$
$\frac{y}{x}$						

a) Is  $y$  directly proportional to  $x$ ?

b) What is the constant of proportionality.

c) Write  $y$  as a function of  $x$ .

■ The table shows a relationship between  $x$  and  $y$ .

[7] Compute  $\frac{y}{x}$  and fill in the bottom row of the table.

<b><math>x</math></b>	0	2	4	6	8
<b><math>y</math></b>	0	$-\frac{5}{4}$	$-\frac{5}{2}$	$-\frac{15}{4}$	-5
$\frac{y}{x}$					

a) Is  $y$  directly proportional to  $x$ ?

b) What is the constant of proportionality.

c) Write  $y$  as a function of  $x$ .

■ The table shows a relationship between  $x$  and  $y$ .

[8] Compute  $\frac{y}{x}$  and fill in the bottom row of the table.

$x$	0	2	4	6	8
$y$	0	-3	-6	-9	-12
$\frac{y}{x}$					

a) Is  $y$  directly proportional to  $x$ ?

b) What is the constant of proportionality.

c) Write  $y$  as a function of  $x$ .

■ The table shows a relationship between  $x$  and  $y$ .

[9] Compute  $\frac{y}{x}$  and fill in the bottom row of the table.

$x$	-5	-2	1	4	7
$y$	$\frac{15}{2}$	3	$\frac{-3}{2}$	-6	$-\frac{21}{7}$
$\frac{y}{x}$					

a) Is  $y$  directly proportional to  $x$ ?

b) What is the constant of proportionality.

c) Write  $y$  as a function of  $x$ .

