Name _____

[06-04-28-T7]

Inverse variation

à **The table shows a relationship between x and y.**

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

x	1	2	3	4	5	6
y	12	6	4	3	12 • 5	2
xy						

a) Is y inversely proportional to x?

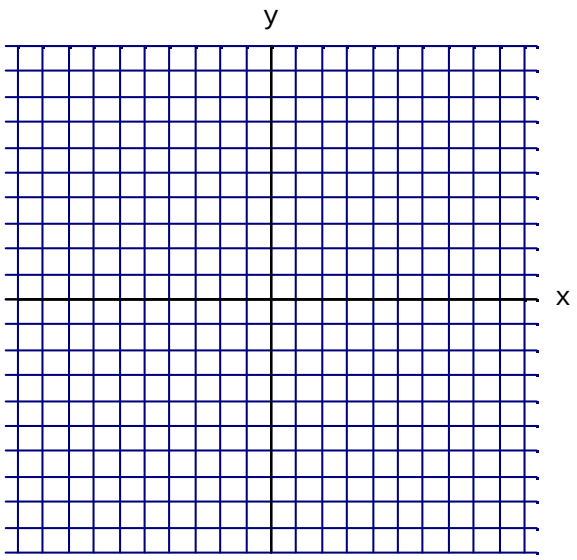
b) What is the constant of proportionality.

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 (let x Î Ñ and each division equal 4 units).



à **The table shows a relationship between x and y.**

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

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

a) Is y inversely proportional to x?

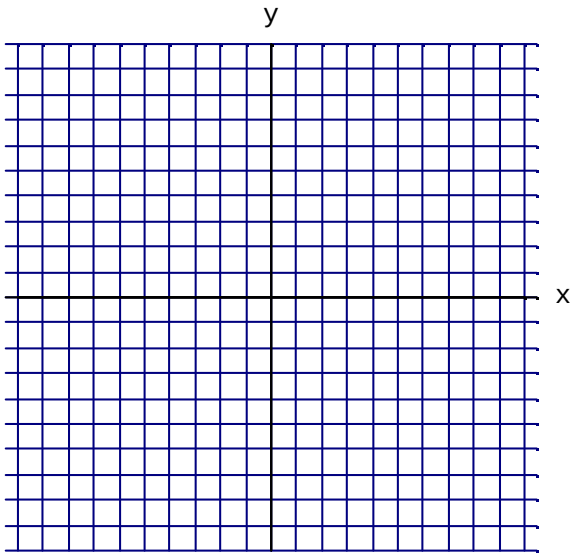
b) What is the constant of proportionality.

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 (let x Î Ñ and each division equal 4 units).



à **The table shows a relationship between *x* and *y*.**

[1] Compute *x y* and fill in the bottom row of the table.

x	-2	-1	1	2	3	4
y	-1	-2	2	1	$\frac{2}{3}$	$\frac{1}{2}$
xy						

a) Is *y* inversely proportional to *x*?

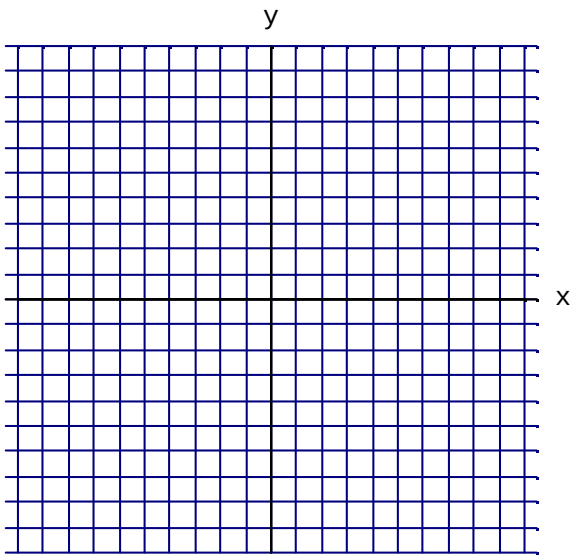
b) What is the constant of proportionality.

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 (let *x* Î Ñ and each division equal 4 units).



à **The table shows a relationship between *x* and *y*.**

[1] Compute *x y* and fill in the bottom row of the table.

x	-3	-2	-1	1	2	1
y	$\frac{1}{3}$	$\frac{1}{2}$	1	-1	$\frac{1}{2}$	$\frac{1}{3}$
xy						

a) Is *y* inversely proportional to *x*?

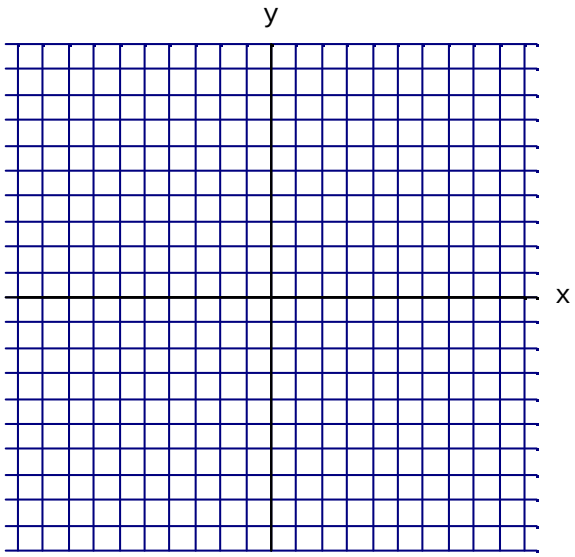
b) What is the constant of proportionality.

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 (let *x* Î Ñ and each division equal 4 units).


y
x