

## Inverse Package

1.

Identify which of the tables of values below represent(s) a situation that is **inversely proportional**.

Table 1	
x	y
1	36
2	18
3	12

Table 2	
x	y
1	18
2	8
3	36

Table 3	
x	y
1	4
2	8
3	12

2.

Identify which of the tables of values below represent(s) a situation that is **inversely proportional**.

Table 1	
x	y
1	42
2	21
3	7

Table 2	
x	y
1	16
2	8
3	14

Table 3	
x	y
1	18
2	9
3	6

3.

Identify which of the tables of values below represent(s) a situation that is **inversely proportional**.

Table 1	
x	y
1	12
2	20
3	14

Table 2	
x	y
1	30
2	15
3	10

Table 3	
x	y
1	5
2	10
3	15

4.

Identify which of the tables of values below represent(s) a situation that is **inversely proportional**.

Table 1	
x	y
1	32
2	16
4	8

Table 2	
x	y
1	50
2	25
4	10

Table 3	
x	y
1	60
2	30
4	15

5.

Determine the **rule** for the table of values below, given that it represents an **inversely proportional** situation.

Table 1	
x	y
1	20
2	10
4	5
5	4

6.

Determine the **rule** for the table of values below, given that it represents an **inversely proportional** situation.

Table 1	
x	y
1	36
2	18
3	12
4	9

7.

Determine the **rule** for the table of values below, given that it represents an **inversely proportional** situation.

Table 1	
x	y
1	18
2	9
3	6
9	2

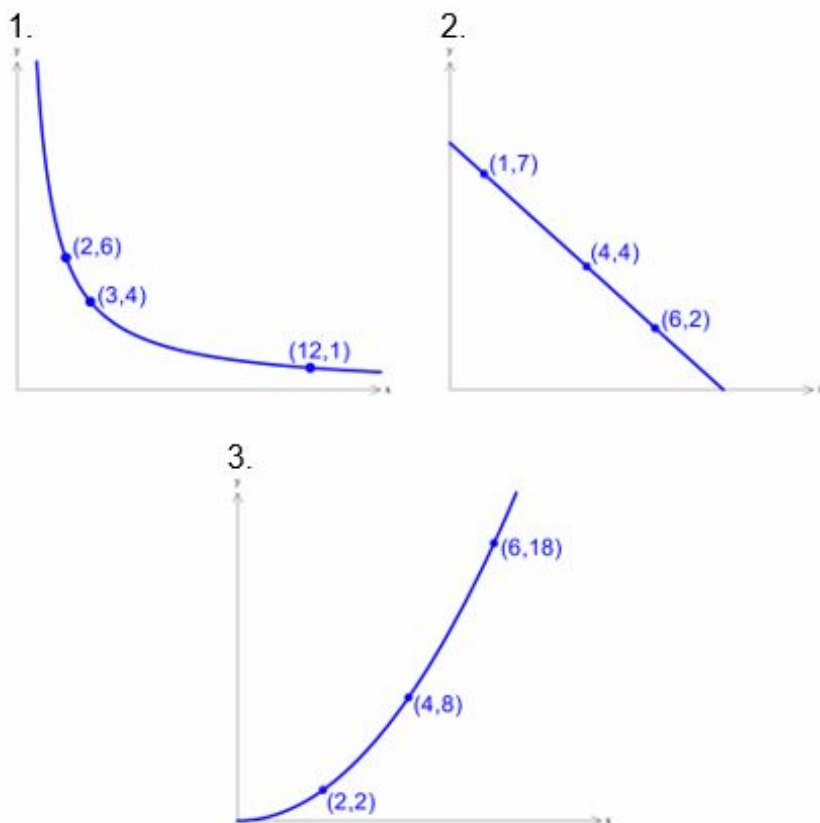
8.

Determine the **rule** for the table of values below, given that it represents an **inversely proportional** situation.

Table 1	
x	y
1	40
2	20
4	10
5	8

9.

Identify which of the graphs below represent(s) a situation that is **inversely proportional**.



10.

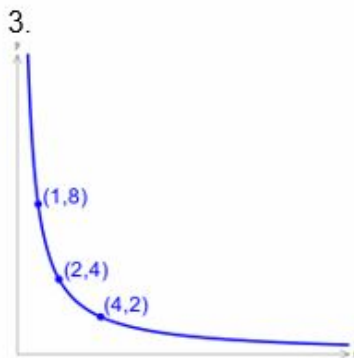
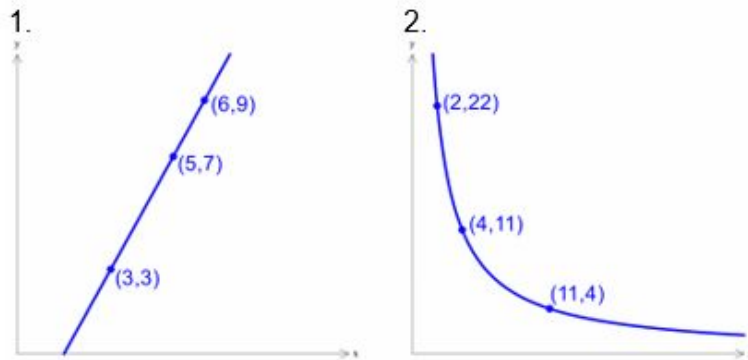
Dylan has cooked a pot of soup for his friends and it contains 1400 mL of soup. Let  $x$  represent the number of friends that come for dinner and let  $y$  represent the amount of soup in mL each friend gets to eat.



Given that the situation is inversely proportional, **determine the rule** to calculate the amount of soup that each friend gets to eat.

11.

Identify which of the graphs below represent(s) a situation that is **inversely proportional**.



12.

A school has been given 350 game tickets to bring a group of students to play games at a local carnival. Let  $x$  represent the number of students that go to the carnival and let  $y$  represent the number of tickets that each student receives.



Given that the situation is inversely proportional, **determine the rule** to calculate the number of tickets that each student receives.

13.

A ferry in Seattle has 240 cars that need to be loaded onto it by a team of employees. Let  $x$  represent the number of employees on the team and let  $y$  represent the number of cars that each employee needs to load.



Given that the situation is inversely proportional, **determine the rule** to calculate the number of cars that each employee needs to load.

14.

Shonda has made 28 pieces of fudge for her weekly book club. Let  $x$  represent the number of people that come to book club and let  $y$  represent the number of pieces of fudge that each person gets to eat.



Given that the situation is inversely proportional, **determine the rule** to calculate the number of pieces of fudge that each person gets to eat.

15.

Mr. Abbott has brought 80 cookies for the students in his science class. Let  $x$  represent the number of students that come to class and let  $y$  represent the number of cookies that each student gets to eat.



Given that the situation is inversely proportional, **determine the rule** to calculate the number of cookies that each student gets to eat.