

5.OA.3

NUMERICAL PATTERNS ON A COORDINATE PLANE

I can generate two numerical patterns using two given rules.

I can form ordered pairs consisting of corresponding terms for the two patterns.

I can graph ordered pairs on a coordinate plane in the first quadrant.

CORRESPONDING TERMS

terms that are in the same position
in a sequence of numbers

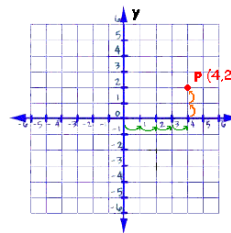
	1 st Term	2 nd Term	3 rd Term	4 th Term
ADD 3	3	6	9	12
ADD 5	5	10	15	20

In the pattern shown,
9 and 15 are the 3rd
terms in each
sequence - they are
corresponding terms.

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ORDERED PAIR

a pair of numbers that gives the
coordinates of a point on a grid



(horizontal coordinate, vertical coordinate)

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x 2	
x	y
0	0
1	2
2	4
3	6
4	8

(X, Y)

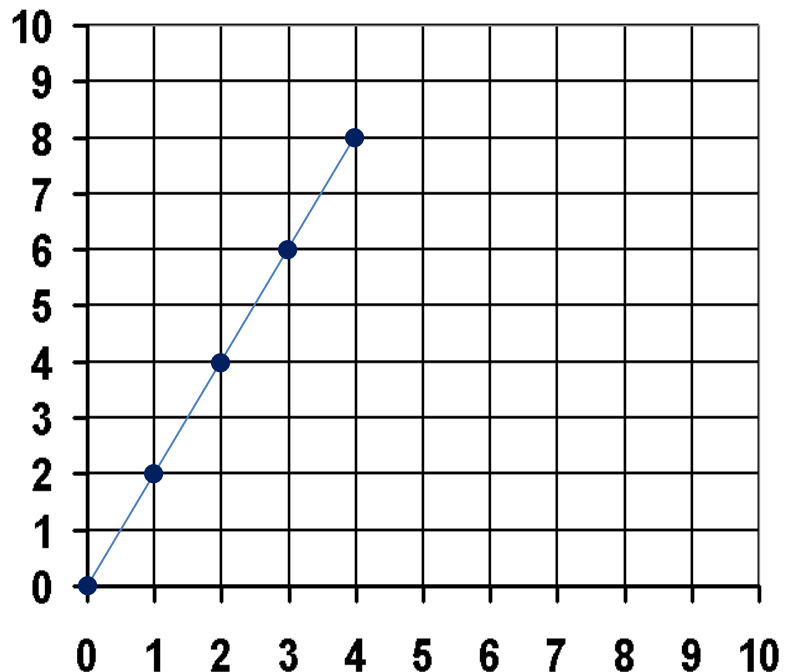
(0,0)

(1,2)

(2,4)

(3,6)

(4,8)



corresponding
terms

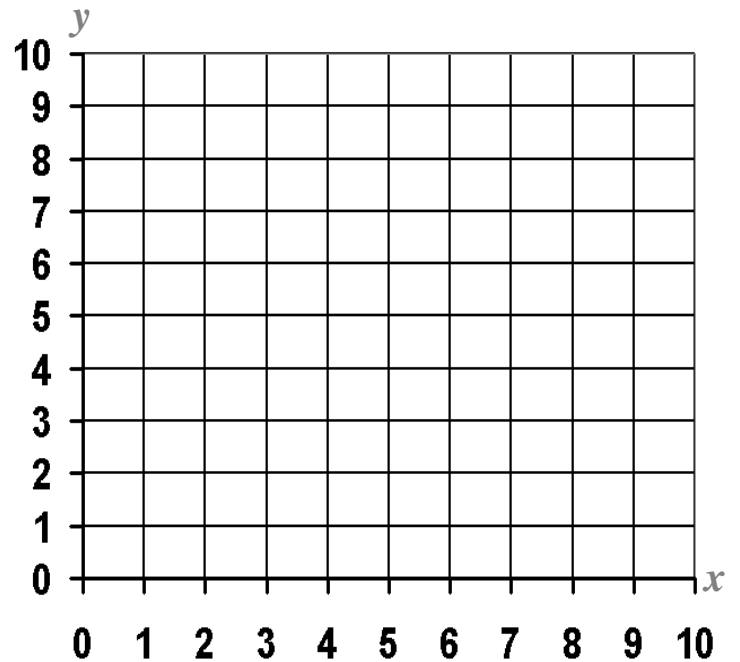
ordered
pairs

coordinates on a plane

Use the information given to complete the data chart. Then graph your findings on the coordinate plane.

Add 2	
x	y
0	
1	
2	
3	
4	

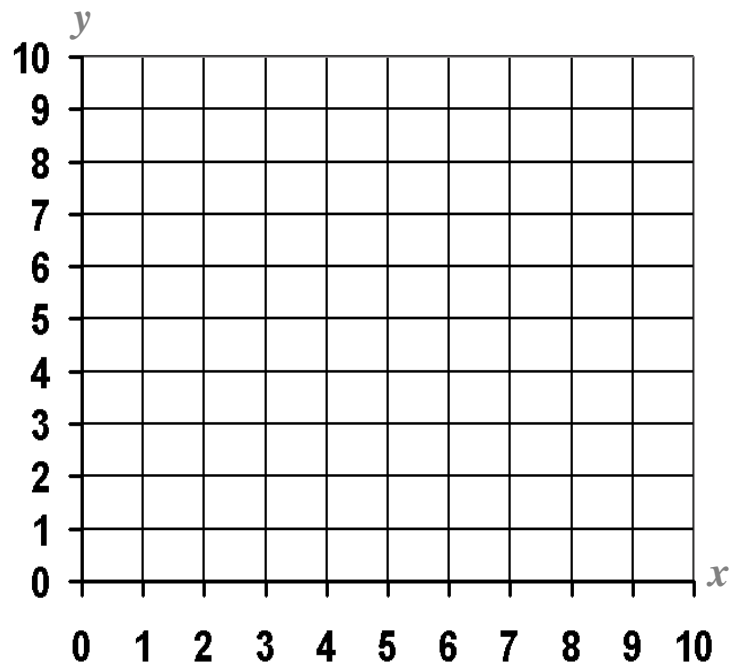
Add 4	
x	y
0	
1	
2	
3	
4	



Use the information given to complete the data chart. Then graph your findings on the coordinate plane.

Subtract 5	
x	y
10	
9	
8	
7	
6	

Subtract 3	
x	y
10	
9	
8	
7	
6	



Look for a relationship in the ordered pairs. Then write the rule.

x	y
30	5
24	4
18	3
12	2

Relationship:

"30 divided by 6 is 5. 24 divided by 6 is 4.

18 divided by 6 is 3. 12 divided by 6 is 2."

They are all divided by 6.

Rule:

$$x \div 6 = y$$



Do you see a pattern?

Rule:

x	y
21	7
18	6
15	5
12	4

x	y
5	25
4	?
3	15
2	10

What is the missing number?

How do you know?

