Name _____

On Your Own

Use the rule to make an input/output table. Include four input/output pairs in your table.

3. For input x and output y, the rule is $y = x + 4$.

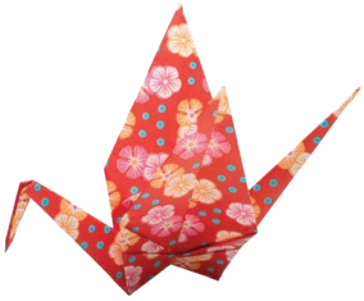
4. For input s and output a, the rule is $a = 11s$.

5. For input u and output v, the rule is $v = 7u$.

6. For input m and output n, the rule is $n = m \times 10$.

7. Explain how you can use the formula for the perimeter of a square, $P = 4s$, to generate a pattern. Use the pattern to find the perimeter of a square with sides that are 5 cm long.

8. Bao makes origami paper cranes for a mobile. He can make 5 cranes with each sheet of paper. Complete the input/output table to show the number of cranes Bao can make with 6 sheets of paper.



Input	Sheets	s	1	2	3	4	5	6
Output	Cranes	c						

9. Max decides to make paper owls. He can make 4 paper owls from each sheet of paper. Complete and use the input/output table to find how many sheets of paper Max would use to make 24 paper owls.

MATH on the Spot

Input	Sheets	s						
Output	Owls	o						

Problem Solving · Applications

Fill in the bubble completely to show your answer.

10. Matilda is reading a map of the route to her grandfather's house in another state. The equation $m = 25i$ describes the relationship between i, the number of inches on the map, and m, the number of actual miles. How many miles are represented by 12 inches?

Ⓐ 200 miles Ⓒ 400 miles

Ⓑ 600 miles Ⓓ 300 miles

11. To find the total cost of a field trip, use the equation $c = 4s$, where s is the number of students and c is the cost of the field trip. How much will it cost for 14 students to attend the field trip?

Number of students (s)	3	6	9	12
Cost of field trip in dollars (c)	12	24	36	48

Ⓐ $15 Ⓒ $56

Ⓑ $17 Ⓓ $60

12. Robin places 3 roses and 2 daffodils in each vase. How many flowers will she need if she has 6 vases?

Ⓐ 30

Ⓑ 12

Ⓒ 18

Ⓓ 5

13. Sergei uses the pattern rule $y = 4 + b$ to generate the first three outputs in the pattern. Which of the following is the fifth output in the pattern?

Input	b	1	2	3	4	5
Output	y	5	6	7		

Ⓐ 5 Ⓒ 8

Ⓑ 9 Ⓓ 10