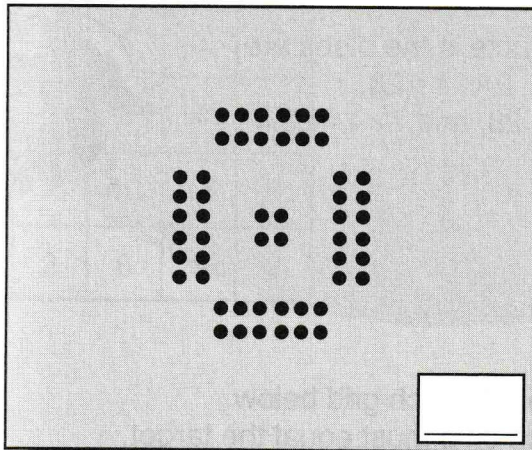


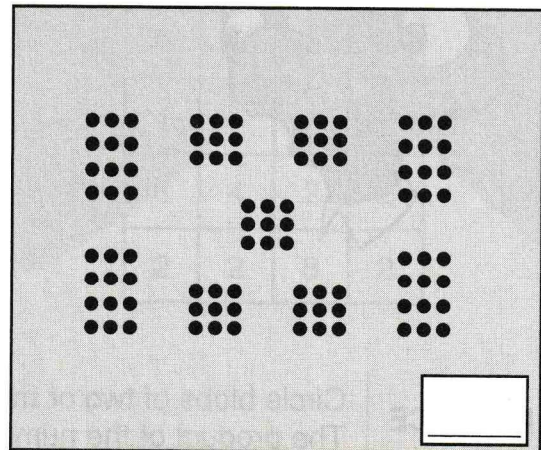
## PRACTICE

In the blanks, write the number of gumballs Grogg used to create each picture.

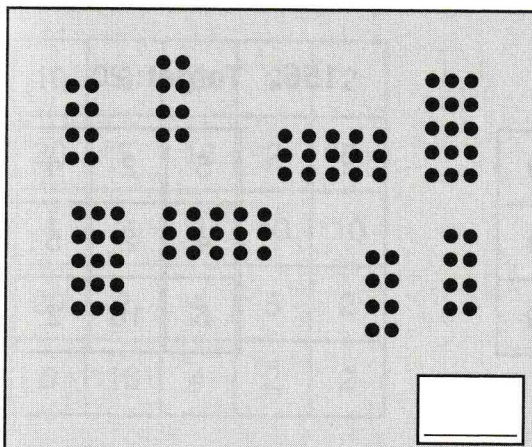
148.



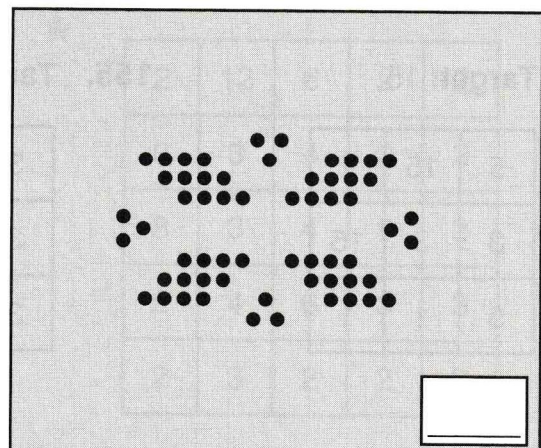
149.



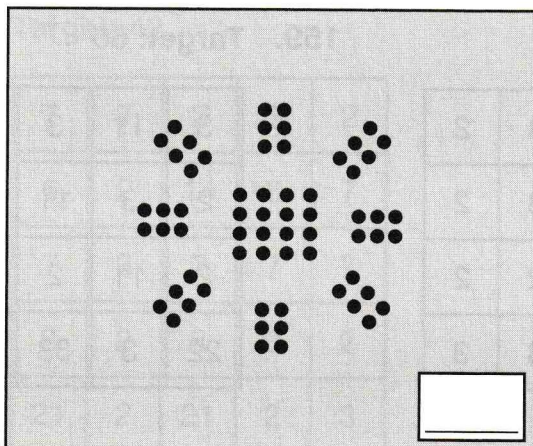
150.



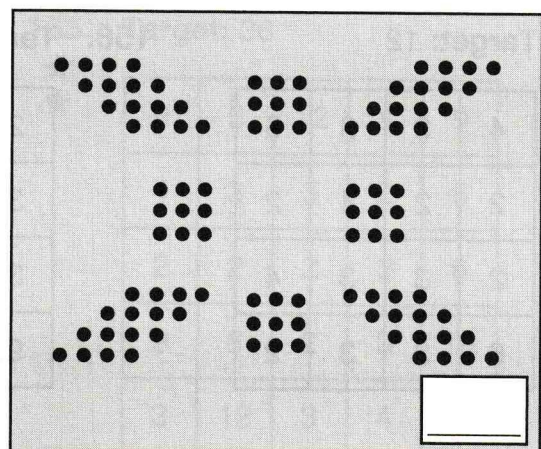
151.



152.



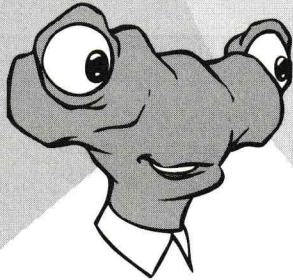
153.





The numbers in each blob must be in squares that share a side.

Every number must be in exactly one blob, and the blobs cannot cross each other.

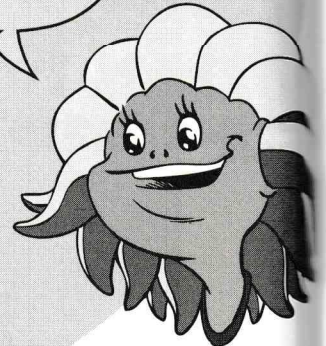


### EXAMPLE

Circle blobs of two or more numbers in the grid below so that the numbers in each blob have a product of 28.

4	2	14
7	2	7
7	2	4

We use every number in the grid!



The products in the blobs are  $4 \times 7 = 28$ ,  $2 \times 14 = 28$ ,  $7 \times 2 \times 2 = 28$ , and  $7 \times 4 = 28$ .

### PRACTICE

Circle blobs of two or more numbers in each grid below. The product of the numbers in each blob must equal the target.

154. Target: 15

5	15	1
3	3	15
5	1	1

155. Target: 27

3	3	9
3	3	9
3	3	9

156. Target: 20

5	2	4
4	2	5
5	10	2

157. Target: 12

4	3	3	6
2	2	4	2
2	3	3	4
6	2	3	2

158. Target: 18

2	3	3	2
3	3	3	2
3	9	2	2
9	2	3	3

159. Target: 66

3	11	3	2
2	3	11	3
2	11	2	2
22	3	33	11

## PRACTICE

Circle blobs of two or more numbers in each grid below.  
The product of the numbers in each blob must equal the target.

160. Target: 60

2	5	3	2
3	2	4	20
30	10	15	3
2	6	5	2

161. Target: 16

8	2	2	2
4	2	2	2
8	4	2	2
2	2	8	2

162. Target: 80



10	8	2	2	2
20	5	16	2	5
4	2	2	40	10
20	2	4	5	2
5	16	4	2	2

163. Target: 24



2	12	6	2	2
3	3	4	2	2
8	3	4	8	2
2	4	6	3	3
2	3	2	2	2

164. Target: 42



7	7	3	3	2
6	2	14	6	7
7	3	7	7	7
3	2	2	3	2
21	2	21	2	3

165. Target: 36



9	3	12	4	9
4	3	3	2	6
2	2	2	3	6
9	6	2	3	18
3	12	3	4	2



**PRACTICE**

Answer each problem below.

**166.** What is the perimeter of a regular chiliagon with sides of length 60? (A chiliagon is a polygon with 1,000 sides.) **166.** \_\_\_\_\_

**167.** Grogg is 52 inches tall. He stands under a flagpole that is 5 times as tall as he is. How many inches tall is the flagpole? **167.** \_\_\_\_\_

**168.** Grogg has 136 Beast Bars. Alex has 64 Beast Bars. Winnie has no Beast Bars. If Grogg and Alex each give half of their Beast Bars to Winnie, how many Beast Bars will Winnie have? **168.** \_\_\_\_\_

**PRACTICE**

Answer each problem below.

169. Lizzie has 24 jellybeans. Winnie has five times as many jellybeans as Lizzie. How many jellybeans do Winnie and Lizzie have together? **169.** \_\_\_\_\_
170. A crate of markers holds 8 boxes of markers. Each box contains 5 packs of markers. Each pack of markers contains 12 markers. The Beast Academy art club buys 5 crates of markers. How many markers is this? **170.** \_\_\_\_\_
171. Winnie multiplies the ages, in years, of her two youngest cousins. The product is 32. One of those cousins is half as old as the other. What is the age in years of the younger cousin? **171.** \_\_\_\_\_

172. Winnie has 72 dollars. She goes to one store and spends half of her money. Then, she goes to another store and spends half of the money she has left. Then, she goes to a third store and spends half of the remaining money. She puts the rest of her money in a piggy bank. How many dollars does Winnie put into her piggy bank?

172. \_\_\_\_\_

173. ★ Grogg buys some gumballs from the candy store. Walking back from the store, he loses half his gumballs. Then, he gives half of the remaining gumballs to Alex. Then, Grogg chews half of the gumballs he has left. At the end, he has 7 gumballs. How many gumballs did Grogg originally buy from the candy store?

173. \_\_\_\_\_

174. ★ Alex has between 9 and 51 coins in his coin collection. The number of coins in his collection is a multiple of 5. If he adds one coin to his collection, then the number of coins will be a multiple of 7. How many coins does Alex have in his collection right now?

174. \_\_\_\_\_



175. Ms. Q. has fewer than 50 students in her class. She arranges her students into groups for a project.  
★ When she puts 2 students in each group, there is 1 extra student.  
When she puts 3 students in each group, there is also 1 extra student.  
Finally, when she puts 5 students in each group, there are no extra students. How many students are in Ms. Q's class?

175. \_\_\_\_\_

176. There are fewer than 75 students in the Beast Academy Marching Band. When they stand in rows of 3, there is 1 extra band member.  
★ When they stand in rows of 4, there are 2 extra band members.  
★ When they stand in rows of 5, there are 3 extra band members.  
How many students are in the Beast Academy Marching Band?

176. \_\_\_\_\_