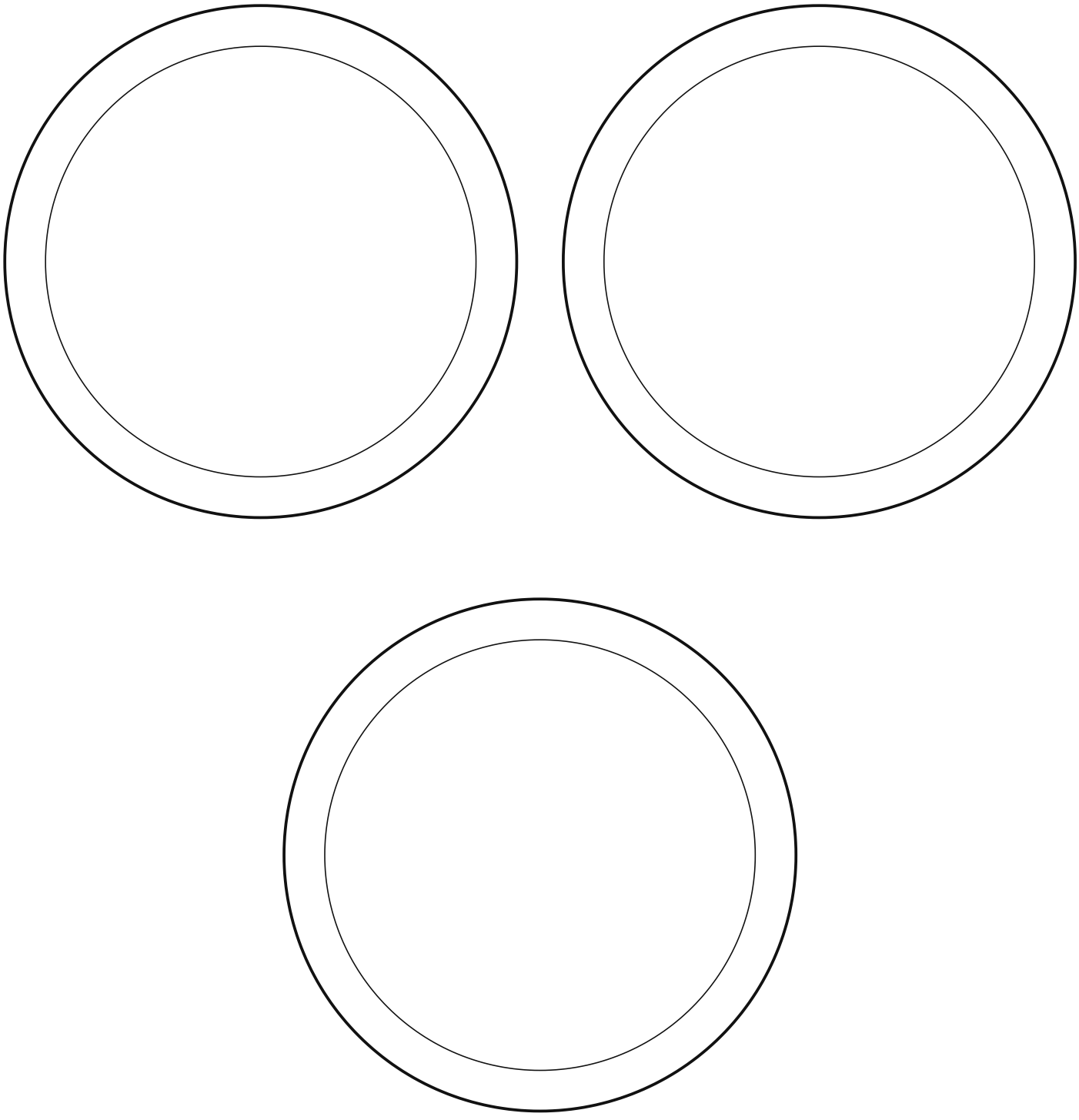
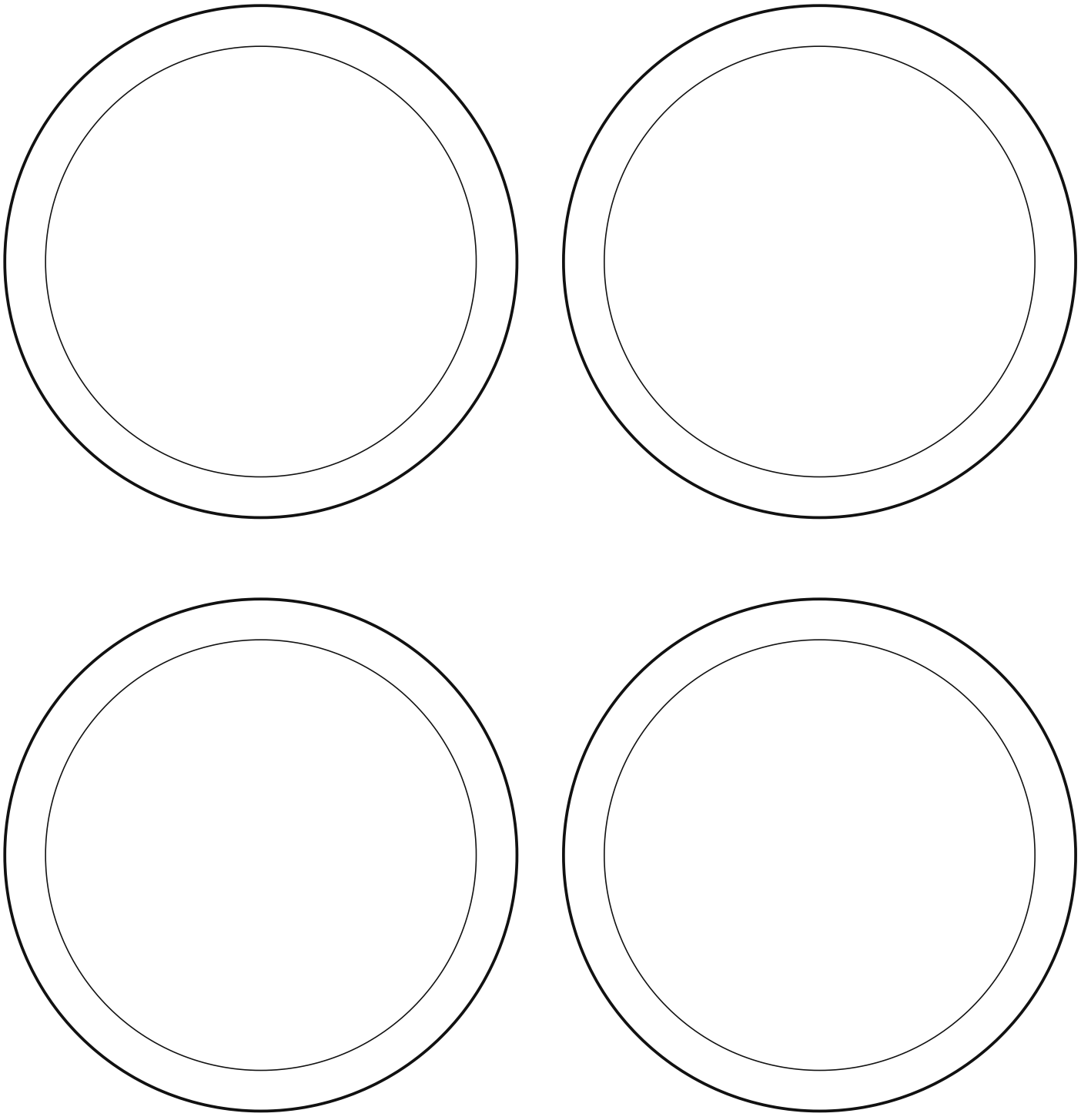
Division Sharing Mats: 3 Plates

Deal the counters onto the 3 plates, one at a time. How many on each plate?



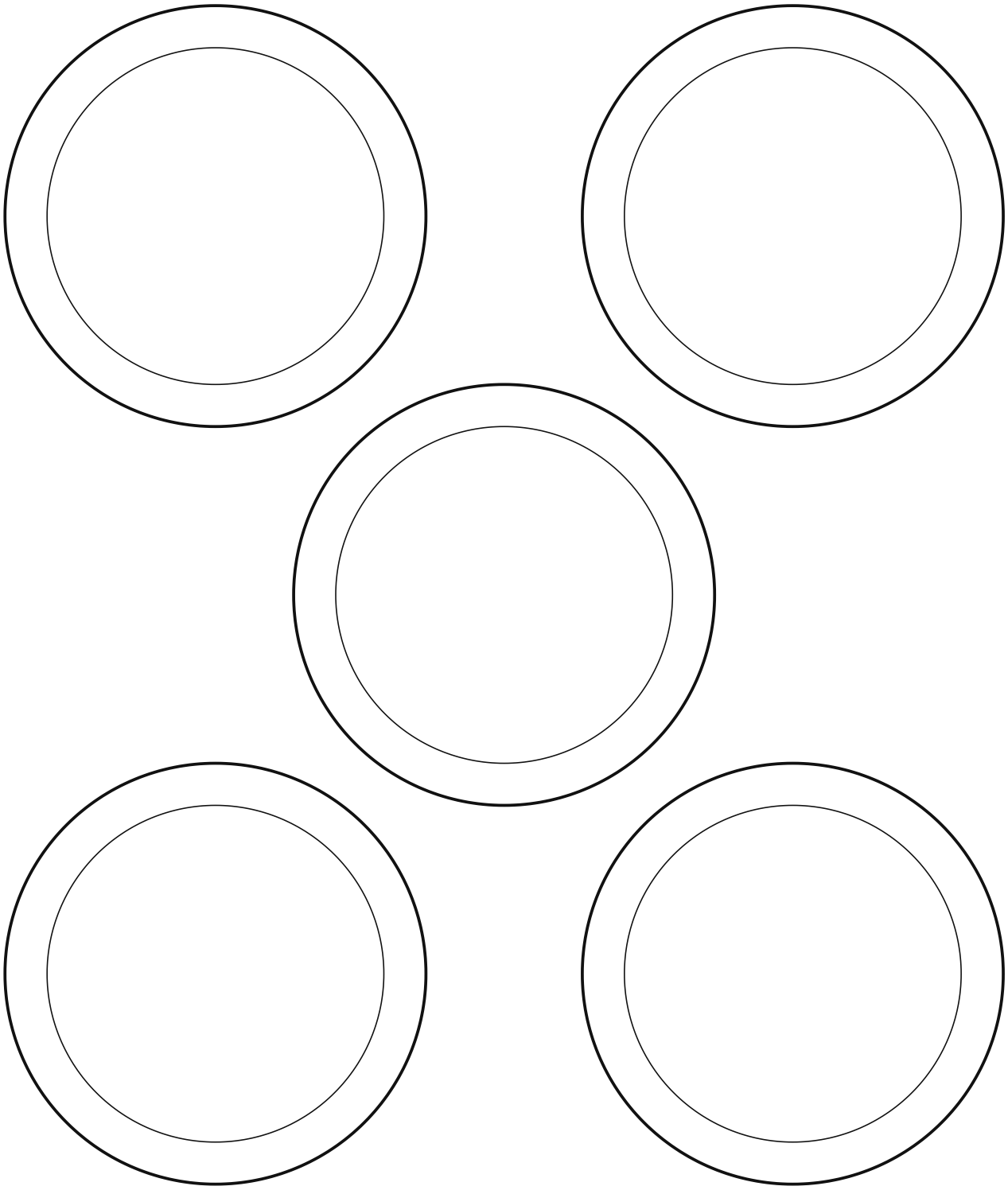
Division Sharing Mats: 4 Plates

Deal the counters onto the 4 plates, one at a time. How many on each plate?



Division Sharing Mats: 5 Plates

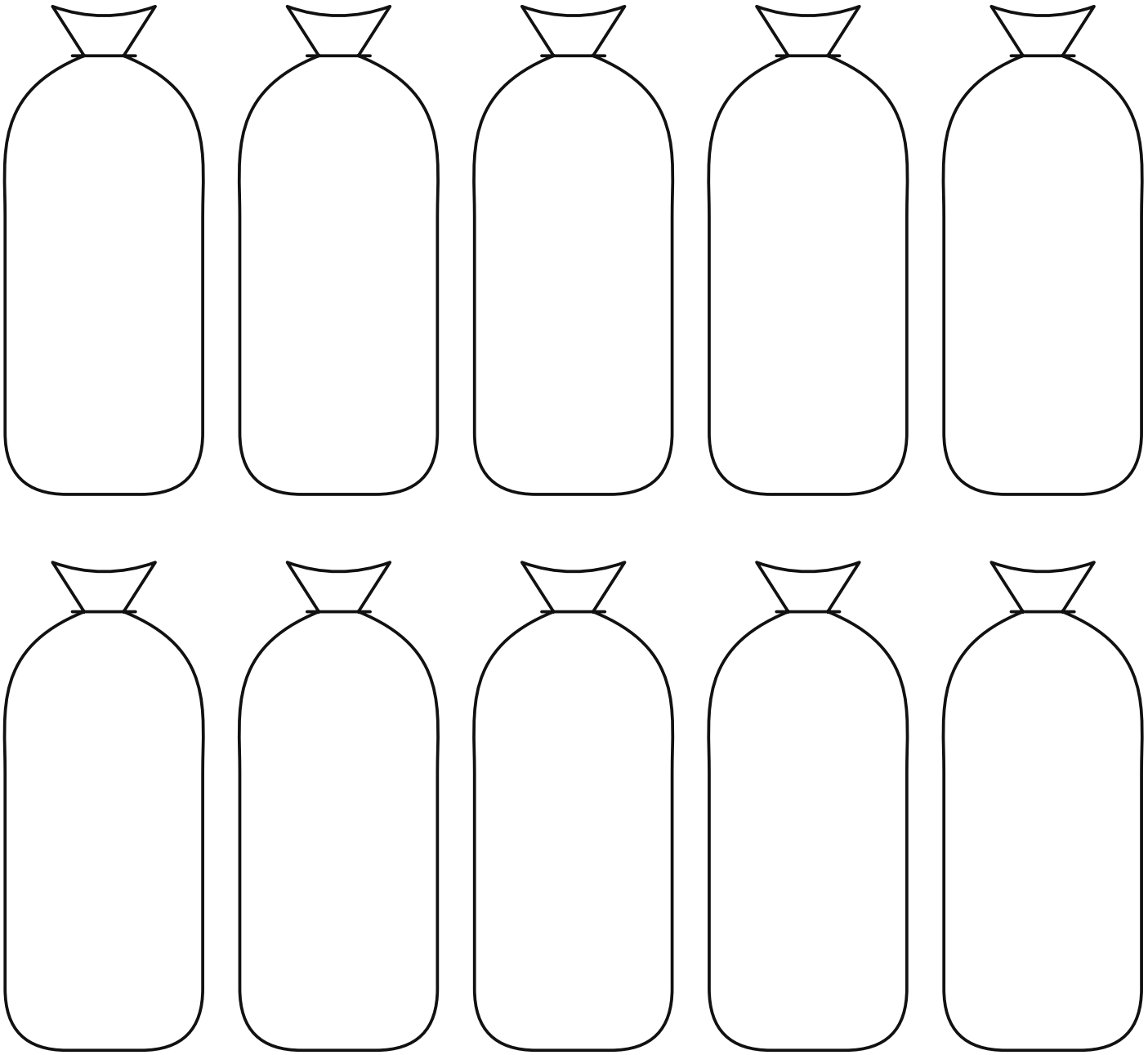
Deal the counters onto the 5 plates, one at a time. How many on each plate?



Division Sharing Mats: Grouping Mat

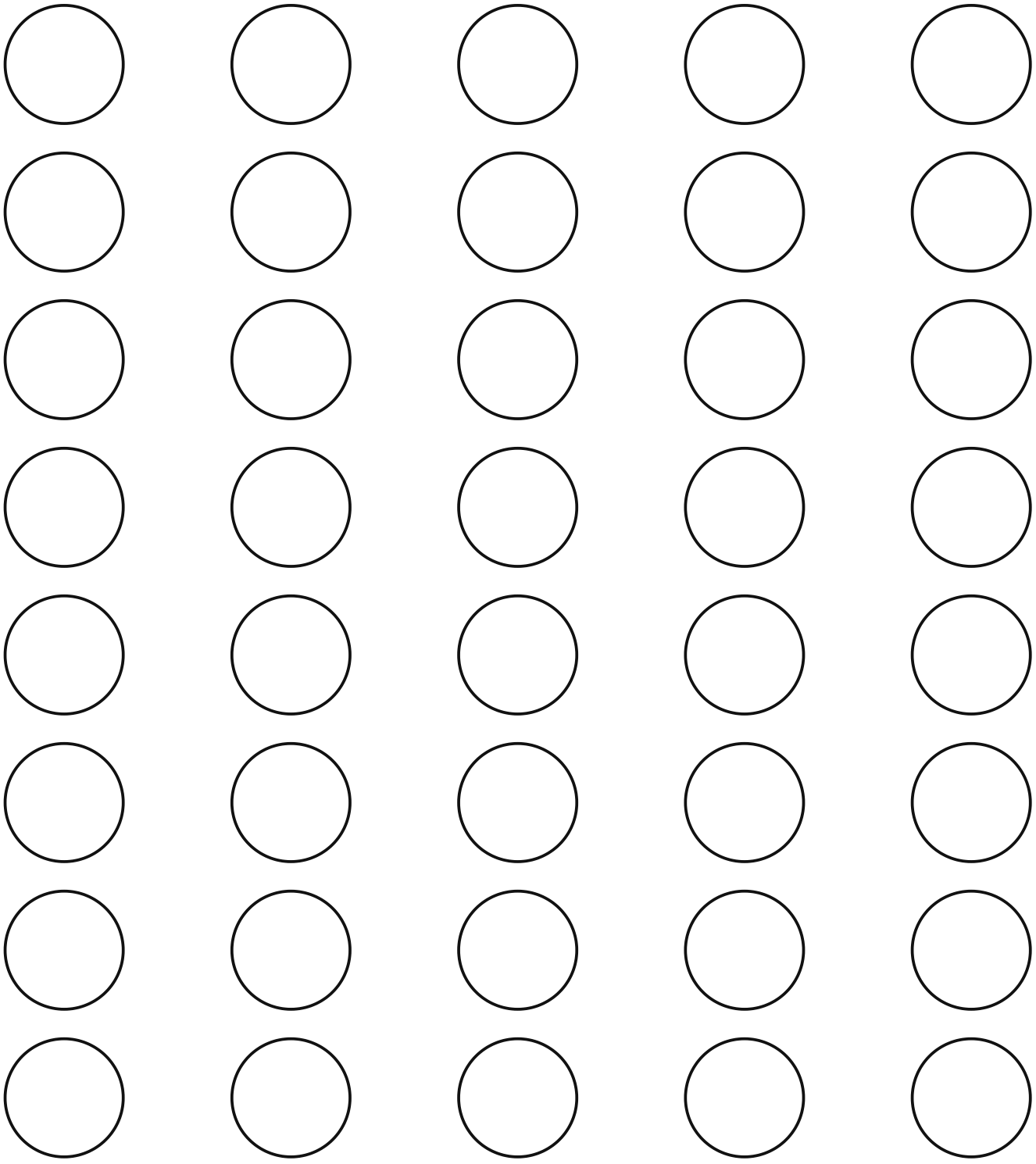
Write how many go in each bag, then fill the bags. How many bags?

In each bag: ☐



Division Sharing Mats: Counters

Cut out the counters along the circles, or use beans or buttons.



Division Sharing Mats: Share or Group?

Read each story. Circle share or group, then write the ÷ sentence and the answer.

18 socks go 2 in each pair. How many pairs?

share group

☐ ÷ ☐ = ☐

15 grapes are shared onto 5 plates. How many on each plate?

share group

☐ ÷ ☐ = ☐

14 strawberries are shared into 2 bowls. How many in each bowl?

share group

☐ ÷ ☐ = ☐

30 pencils go 5 in each box. How many boxes?

share group

☐ ÷ ☐ = ☐

12 crackers go 3 in each cup. How many cups?

share group

☐ ÷ ☐ = ☐

16 apples go 2 in each bag. How many bags?

share group

☐ ÷ ☐ = ☐

20 stickers are shared by 4 friends. How many does each friend get?

share group

☐ ÷ ☐ = ☐

12 crackers are shared onto 3 plates. How many on each plate?

share group

☐ ÷ ☐ = ☐

Division Sharing Mats: Share or Group?

Read each story. Circle share or group, then write the ÷ sentence and the answer.

30 pencils go 5 in each box. How many boxes?

share group

□ ÷ □ = □

12 crackers go 3 in each cup. How many cups?

share group

□ ÷ □ = □

16 apples go 2 in each bag. How many bags?

share group

□ ÷ □ = □

20 stickers are shared by 4 friends. How many does each friend get?

share group

□ ÷ □ = □

12 crackers are shared onto 3 plates. How many on each plate?

share group

□ ÷ □ = □

14 strawberries are shared into 2 bowls. How many in each bowl?

share group

□ ÷ □ = □

18 socks go 2 in each pair. How many pairs?

share group

□ ÷ □ = □

15 grapes are shared onto 5 plates. How many on each plate?

share group

□ ÷ □ = □

Division Sharing Mats: Answer Key, Page 6

For the grown-up. The ring shows the meaning; each red number sits in its box.

18 socks go 2 in each pair. How many pairs?

share (group)

18 ÷ 2 = 9

15 grapes are shared onto 5 plates. How many on each plate?

(share) group

15 ÷ 5 = 3

14 strawberries are shared into 2 bowls. How many in each bowl?

(share) group

14 ÷ 2 = 7

30 pencils go 5 in each box. How many boxes?

share (group)

30 ÷ 5 = 6

12 crackers go 3 in each cup. How many cups?

share (group)

12 ÷ 3 = 4

16 apples go 2 in each bag. How many bags?

share (group)

16 ÷ 2 = 8

20 stickers are shared by 4 friends. How many does each friend get?

(share) group

20 ÷ 4 = 5

12 crackers are shared onto 3 plates. How many on each plate?

(share) group

12 ÷ 3 = 4

Division Sharing Mats: Answer Key, Page 7

For the grown-up. The ring shows the meaning; each red number sits in its box.

30 pencils go 5 in each box. How many boxes?

share (group)

30 ÷ 5 = 6

12 crackers go 3 in each cup. How many cups?

share (group)

12 ÷ 3 = 4

16 apples go 2 in each bag. How many bags?

share (group)

16 ÷ 2 = 8

20 stickers are shared by 4 friends. How many does each friend get?

(share) group

20 ÷ 4 = 5

12 crackers are shared onto 3 plates. How many on each plate?

(share) group

12 ÷ 3 = 4

14 strawberries are shared into 2 bowls. How many in each bowl?

(share) group

14 ÷ 2 = 7

18 socks go 2 in each pair. How many pairs?

share (group)

18 ÷ 2 = 9

15 grapes are shared onto 5 plates. How many on each plate?

(share) group

15 ÷ 5 = 3

For Grown-Ups: How to Use These Mats

For second and third grade, about 10 minutes at a time, with the counters on page 5, dried beans, or crackers.

Why use it

Division has two meanings. Sharing deals a total onto a number of plates and asks how many are on each; grouping puts the same number in each bag and asks how many bags. Both are written 12 ÷ 3 = 4, and the Common Core asks third graders to understand both (3.OA.A.2). Objects come first, then the numbers.

What it is good for

- Sharing 12, 15, or 20 counters onto 3, 4, or 5 plates.
- Grouping a pile into bags of 2, 3, or 5 and counting the bags.
- Telling a sharing story from a grouping story, on the Share or Group pages.

How to use it

1. Put 12 counters and the mat with 3 plates on the table.
2. Your child deals them one at a time onto the plates, then counts one plate: 4 on each.
3. On the grouping mat, write 3 in the box and fill the bags 3 at a time: 4 bags.
4. Write 12 ÷ 3 = 4 and ask what the 4 counted each time.
5. On the story pages, your child circles share or group first, then writes the sentence.

> **Try saying:** “Is this sharing or grouping? Do we know how many plates, or how many on each?”

Tip: Pick totals that share out evenly, such as 12, 15, 18, or 20. Remainders come in fourth grade.