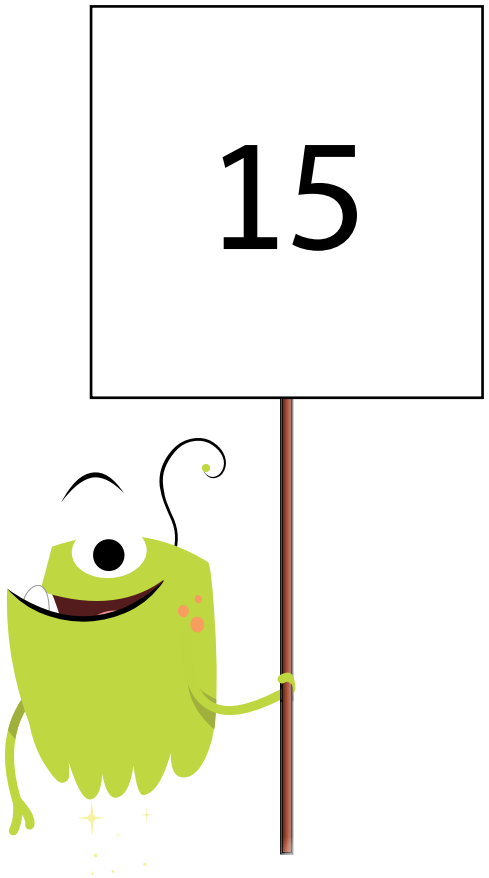
Explore Counting Teen Numbers

Try It

Learning Target

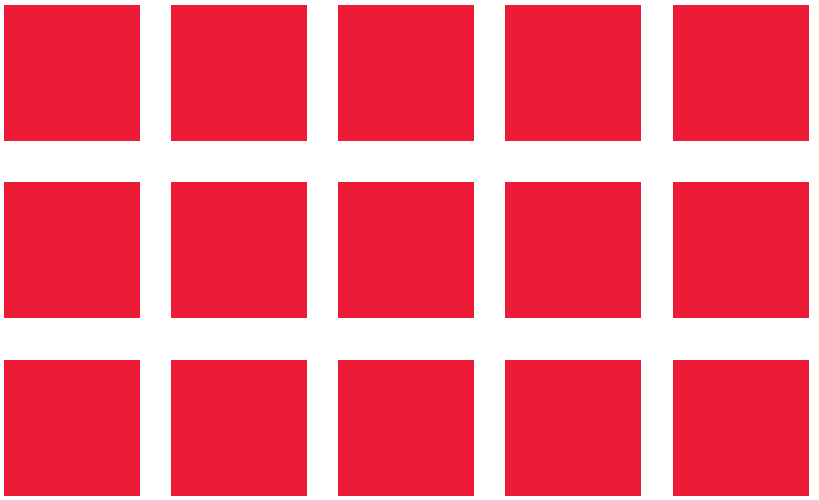
- Write numbers from 0 to 20. Represent a number of objects with a written numeral 0–20.

SMP 1, 2, 3, 4, 5, 6, 7, 8



Math Toolkit

- counters



Have children build and count a group of 15 objects and read the corresponding number. Say: *We need to make 3 relay teams. 5 children are on each team. How many children do we need?* Arrange 3 groups of 5 children in a 3 × 5 array. Together, count each child. Then have children count the squares. Ask children to circle 2 groups of 5 and say how many are in the circled group. Ask children to count the number of squares again, starting from 10.

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Connect It

Have children build and count groups of objects from 11 to 20. Have children place 10 counters on the top 10-frame. Prompt children to recognize this as a group of 10. Have children place 1 counter on the bottom 10-frame. Ask: *How many?* Display the number card for 11. Children continue adding 1 counter at a time to the bottom 10-frame and counting until there are 20 counters. Display the corresponding number card each time.

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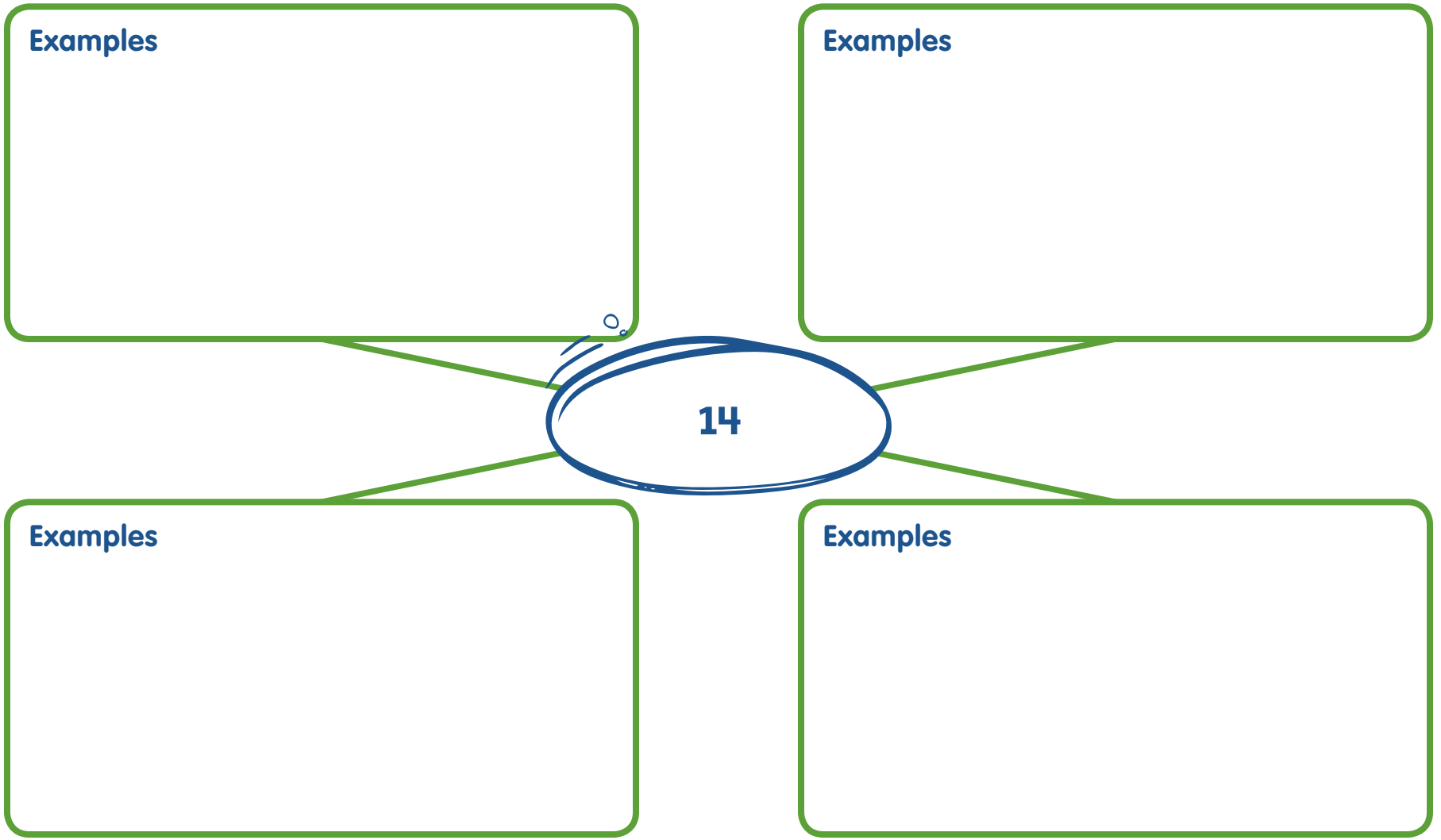
Prepare for Counting Teen Numbers



Have children show the meaning of 14. Have children fill in each of the boxes to show the meaning of 14. Tell children that they can use words, numbers, and pictures. Encourage them to show as many ideas as they can.

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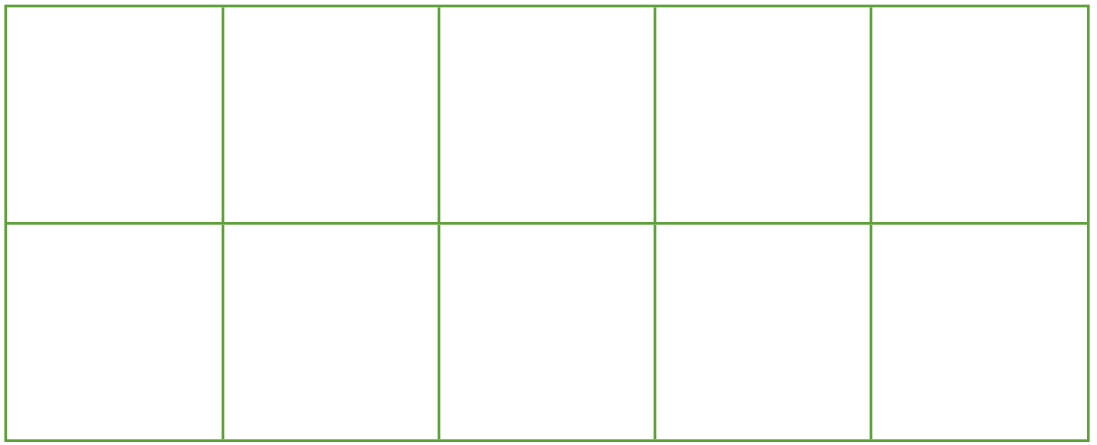

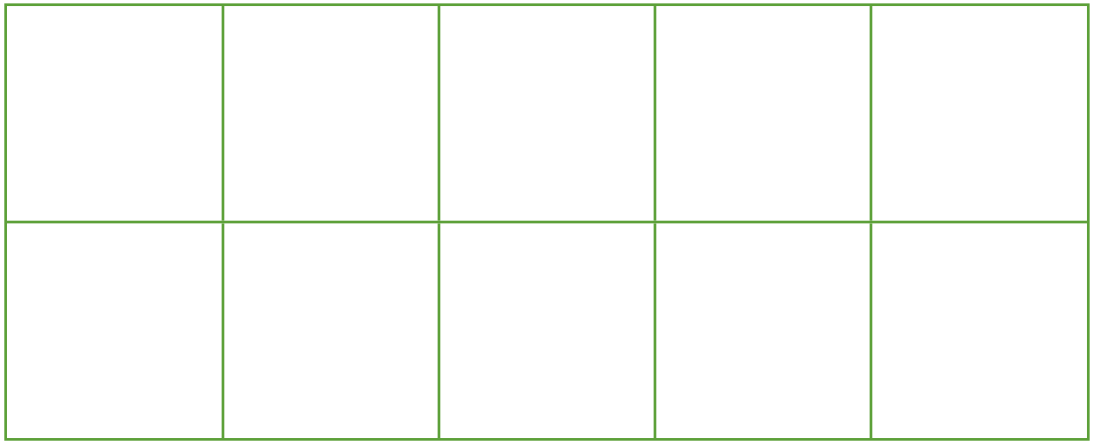

Have children build and count a group of 16 objects. Have children place 10 small objects on the top 10-frame. Prompt children to recognize this as a group of 10. Have children place 6 small objects on the bottom 10-frame. Ask: *How many?*

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Develop Counting Teen Numbers

Ask children to describe the quantities they see in the picture. Together count the 10 blue paint jars and then find how many jars on the top shelf, how many tall jars, and how many jars without a label. Have children find and circle a group of 18.

Discuss It How can you keep track of which things you have counted?

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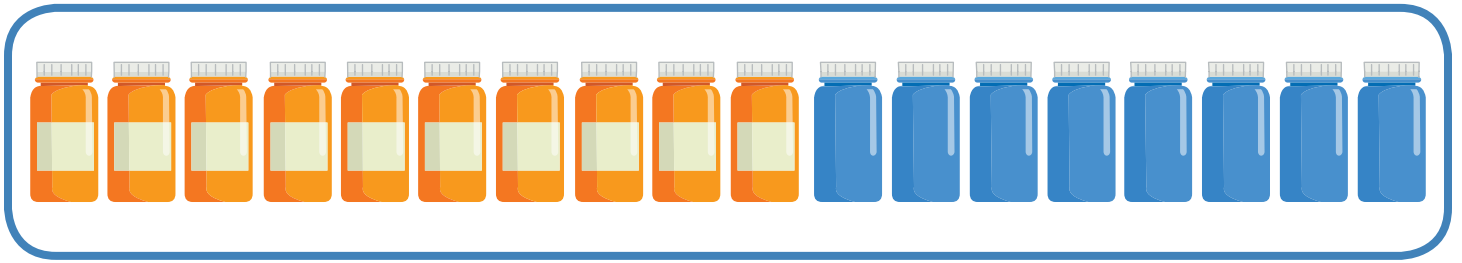
Connect It

17



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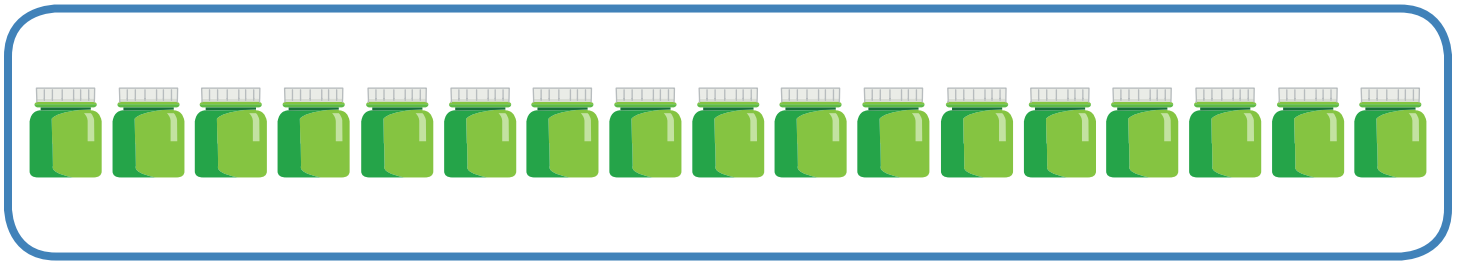

18

Have children match groups of objects to teen numbers that tell how many are in that group. Have children count the number of objects in each group. Then have children draw lines to match the pictures to the numbers.

Discuss It How do you know you have the correct total for a group of objects? How could you check?

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Practice Counting Teen Numbers

Have children color a group of 15 paint jars, using green for 10 of them and orange for the extras. Tell children to color a group of 12 watercolors in the tray, using green for 10 of them and purple for 2 of them. Have children color the rest of the picture.

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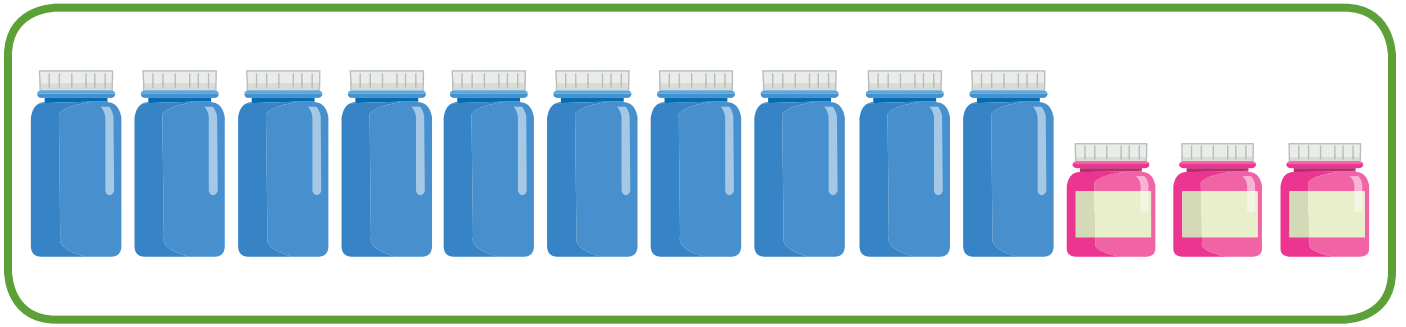
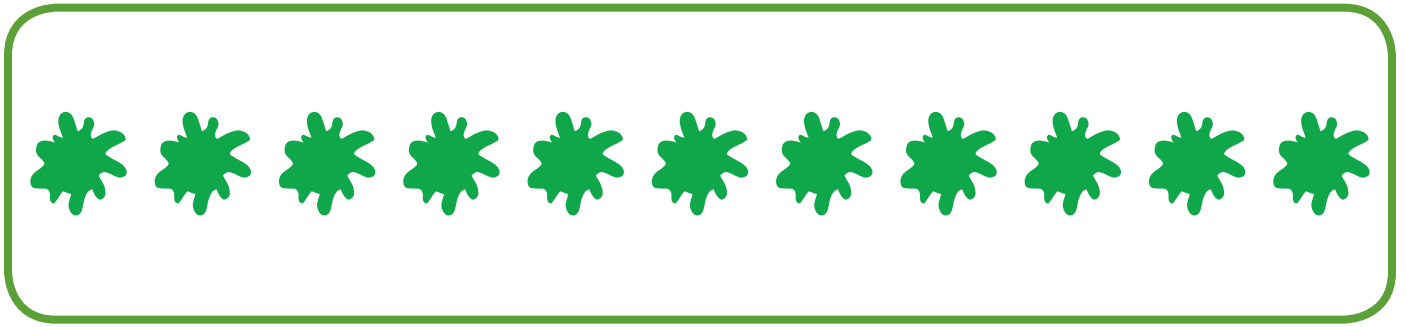


13

11



14

Have children match groups of objects to teen numbers that tell how many are in that group. Have children count the number of objects in each group. Then have children draw lines to match the pictures to the numbers.

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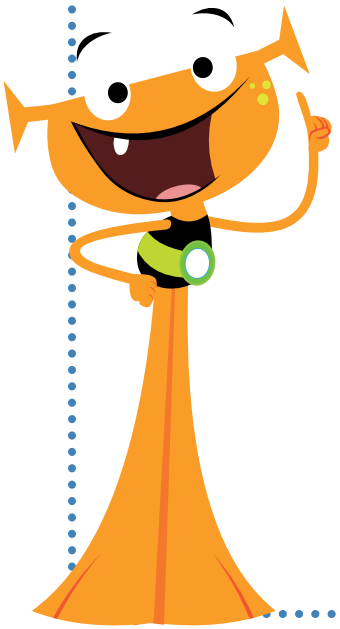
Develop Counting Teen Numbers

Try It



Math Toolkit

- counters

Have children make and write teen numbers. Give each child 20 counters. Show a dot card from 11 to 20. Have children show the number using counters on the 10-frames, filling the top frame first, and then write the number. Repeat with other numbers from 11 to 20.

Discuss It What do you notice about the top 10-frame each time?

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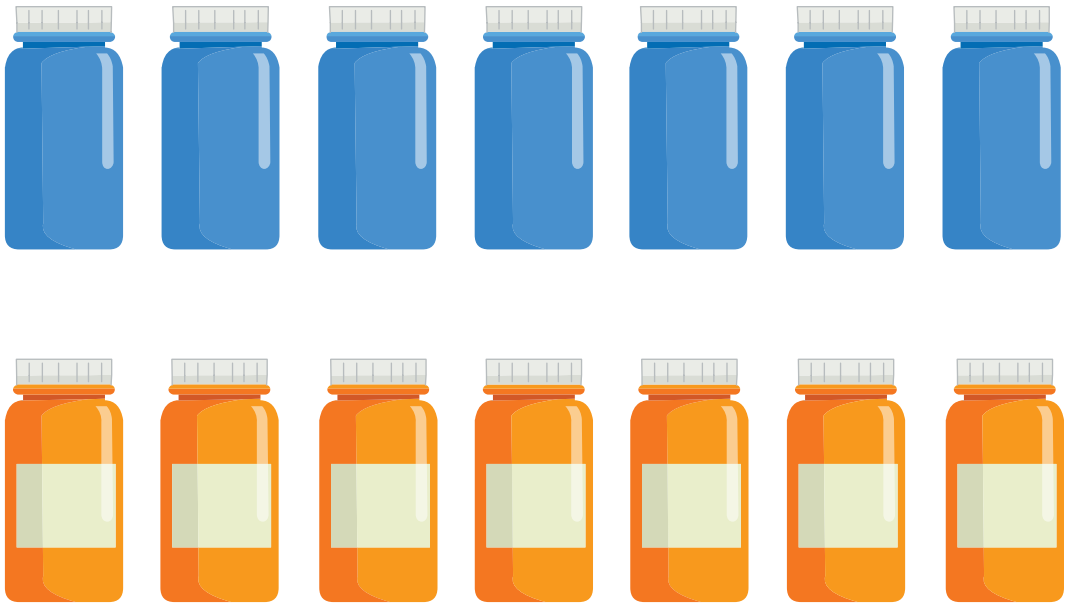
Connect It



12 _____

13 - - - - - - - - - -

_____

14

12 _____

13 - - - - - - - - - -

_____

14

Have children count teen numbers. Have children count the number of each object. Then have them write the number they counted and read the numeral. Have children check their answer by circling a group of 10 objects and then counting the "extras."

Discuss It How many "extras" do you have in each problem? Where do you see the number of extras in the teen number?

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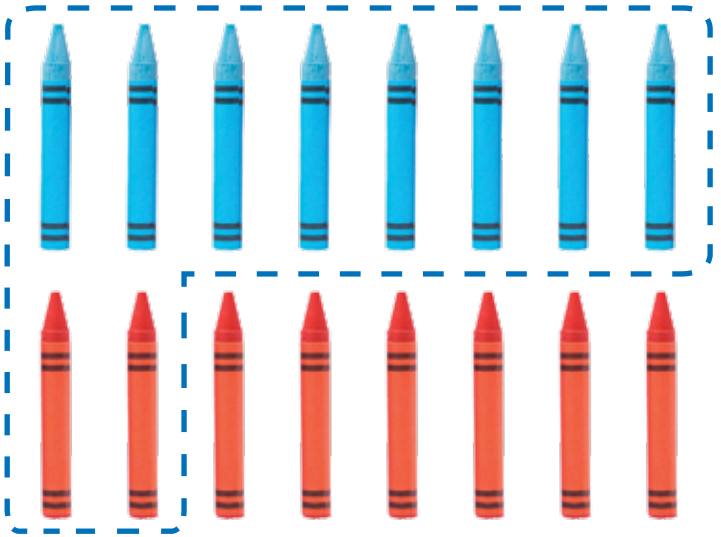
Practice Counting Teen Numbers

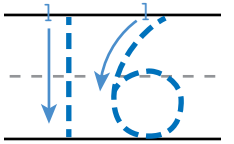
Example



14

15

16



11

12

13

_____

_____

Have children count teen numbers. Have children count the objects in each problem. Then have them write the number counted. Have children check their answer by circling a group of 10 objects and then counting the "extras."

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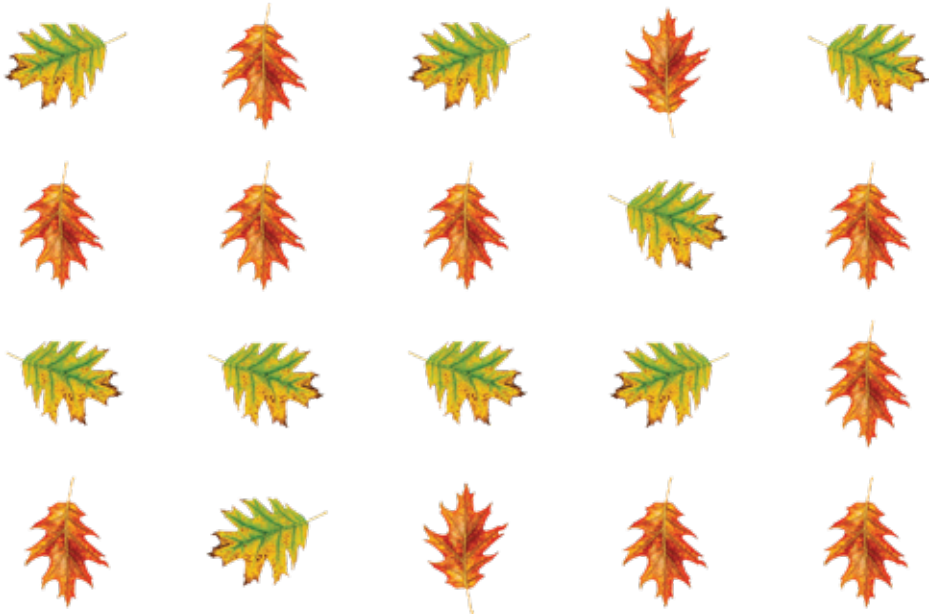
14 _____

15 - - - - - - - - - -

16 _____



18 _____

19 - - - - - - - - - -

20 _____

Have children count teen numbers. Have children count the objects in each problem. Then have them write the number counted. Have children check their answer by circling a group of 10 objects and then counting the "extras."

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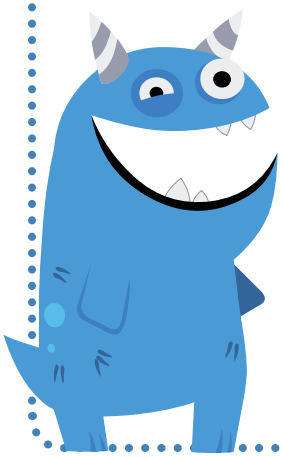
Refine Counting Teen Numbers

Apply It

Math Toolkit

- counters



Have children find 1 more than a teen number. Give each child a set of 20 counters. Hold up a number card from 11 to 19. Have children show 1 more than the number using counters on the 10-frames and then write the new number. Repeat with other numbers from 11 to 19.

Discuss It How else could you find 1 more than a teen number?

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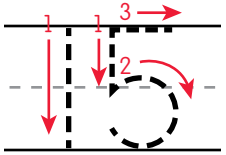

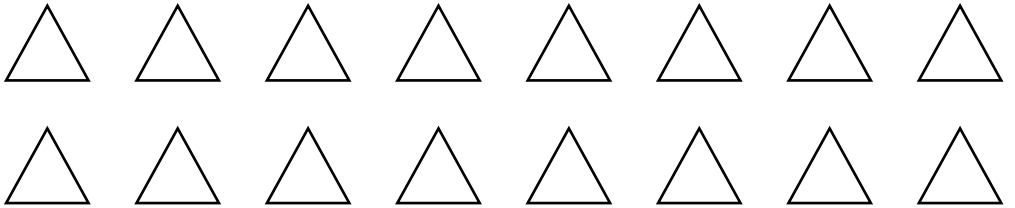

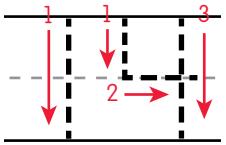

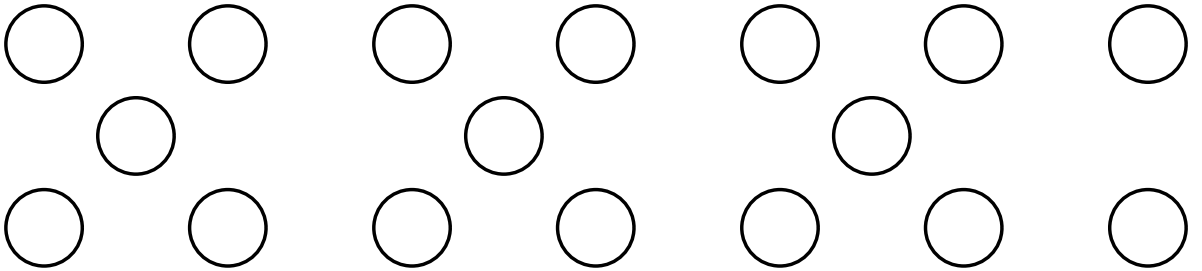

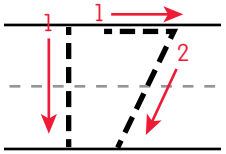

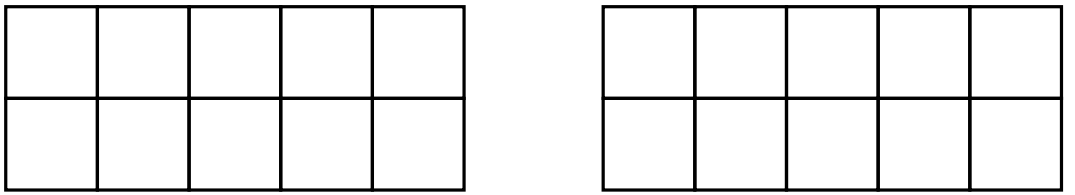

Have children trace each teen number and then count out that number of objects and find 1 more. Remind children to lightly mark each object as they count to keep track and then color them. Then have children write the number that is 1 more and color 1 more.

Discuss It Work with a partner. Did you and your partner color the same shapes in each picture? Does it matter which shapes you color?

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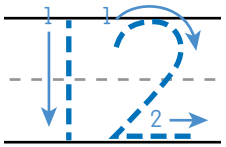
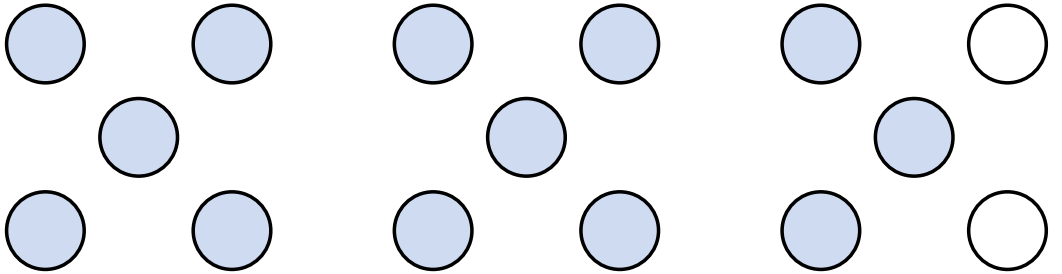
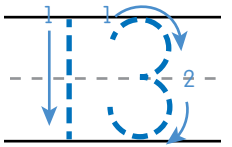
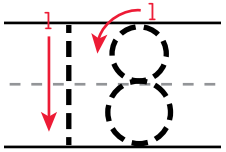
Practice Counting Teen Numbers

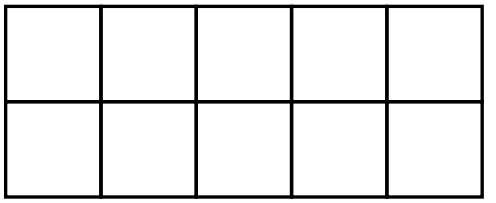
Example

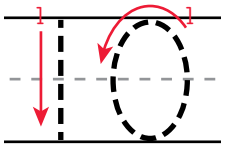


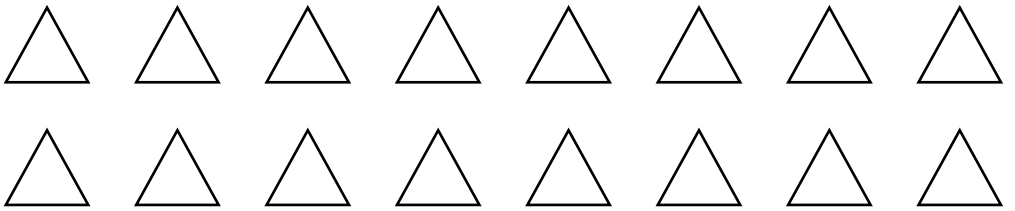












Have children trace each teen number and then count out that number of objects and find 1 more. Remind children to lightly mark each object as they count to keep track and then color them. Then have children write the number that is 1 more and color 1 more.

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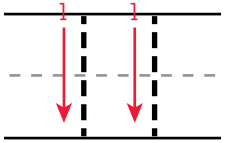

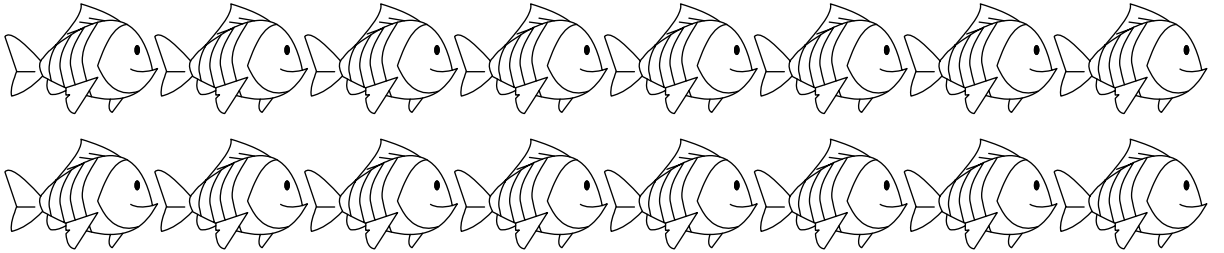

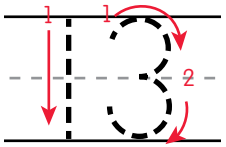

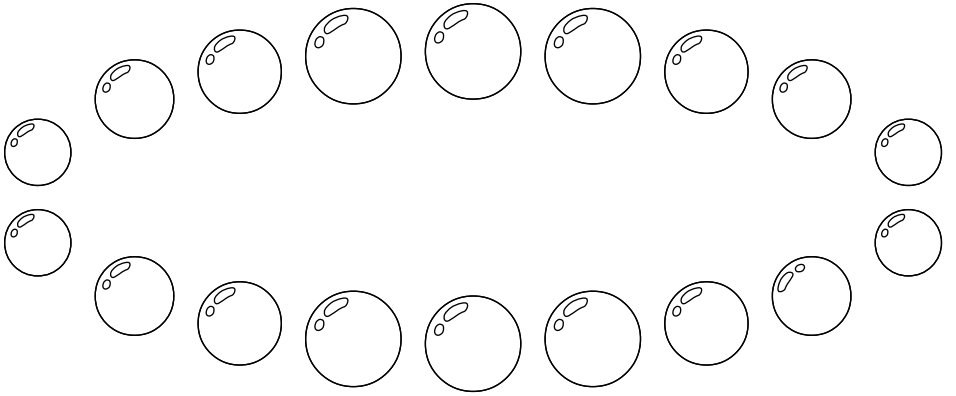

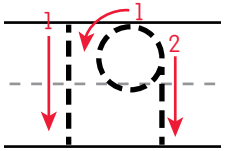

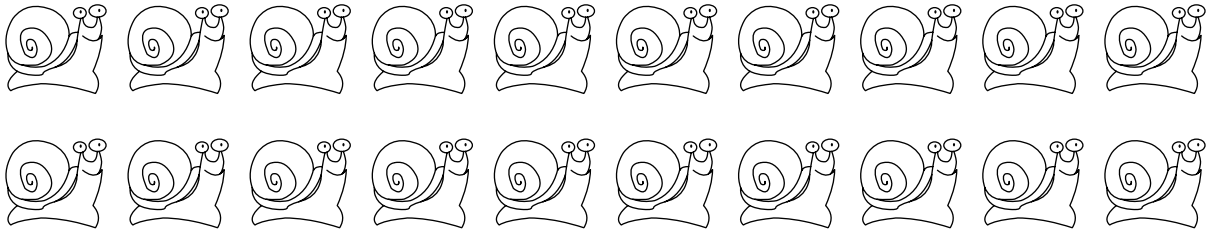

Have children trace each teen number and then count out that number of objects and find 1 more. Remind children to lightly mark each object as they count to keep track and then color them. Then have children write the number that is 1 more and color 1 more.

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Refine Counting Teen Numbers

Apply It

Math Toolkit

• counters

Have children name and write teen numbers. Give children 20 counters. Show a 10-frame with 10 and a 10-frame with 2. Have children place counters on the workmat to match the number on the 10-frames and then write the number. Repeat with 15.

Discuss It How do you know if you have placed the correct number of counters on the workmat?

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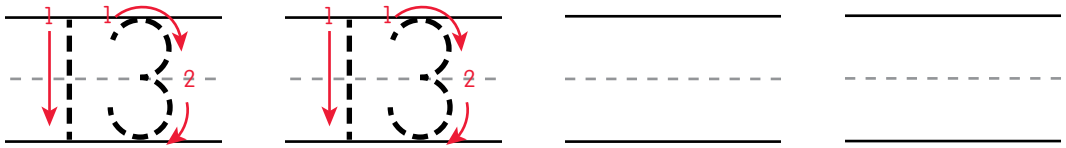

Draw 13.

Have children trace and write 13 and then draw 13 objects. Tell children to trace and write the number 13. Have children draw 13 objects. You may want to suggest objects that are easy for children to draw, such as circles or happy faces.

Discuss It How did you know when to stop drawing? How would your picture be different if you were asked to draw 14?

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Explore Counting to 100 by Ones

Learning Targets

- Count to 100 by ones and by tens.
- Count forward beginning from a given number within the known sequence.

SMP 1, 2, 3, 4, 5, 6, 7, 8

Try It

March						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Have children review counting to 31 using a calendar. Say: *A calendar is a chart that shows numbers in order. We use the calendar to count the days in each month.* Have children point to the dates in order, and lead the class in saying each number aloud together.

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Connect It

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Children count to 100 using a hundred chart and in a circle. Introduce the hundred chart. Say: *A hundred chart is another chart that shows numbers in order.* Have children point to each number and say the number aloud as the class counts to 100 together. Repeat the counting several times. Then have children form a circle and count to 100 together while passing an object around the circle.

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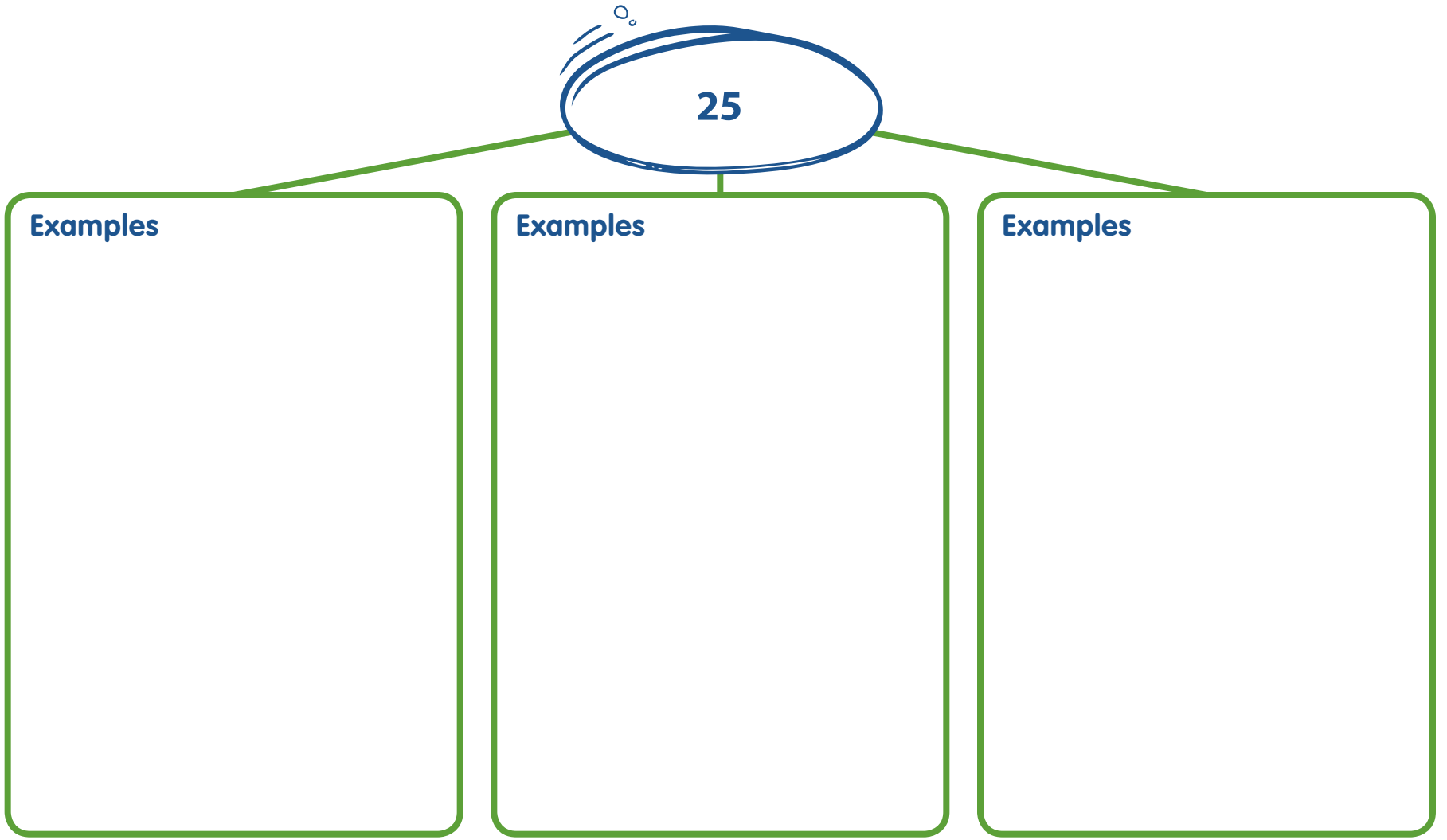
Prepare for Counting to 100 by Ones



Have children show the meaning of 25. Have children fill in each of the boxes to show the meaning of 25. Tell children to use words, numbers, and pictures. Encourage them to show as many ideas as they can.

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1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Have children count to 100 using a hundred chart. Say: *A hundred chart is a chart that shows numbers in order*. Have children point to each number and say the number aloud as they count to 100. Repeat the counting several times.

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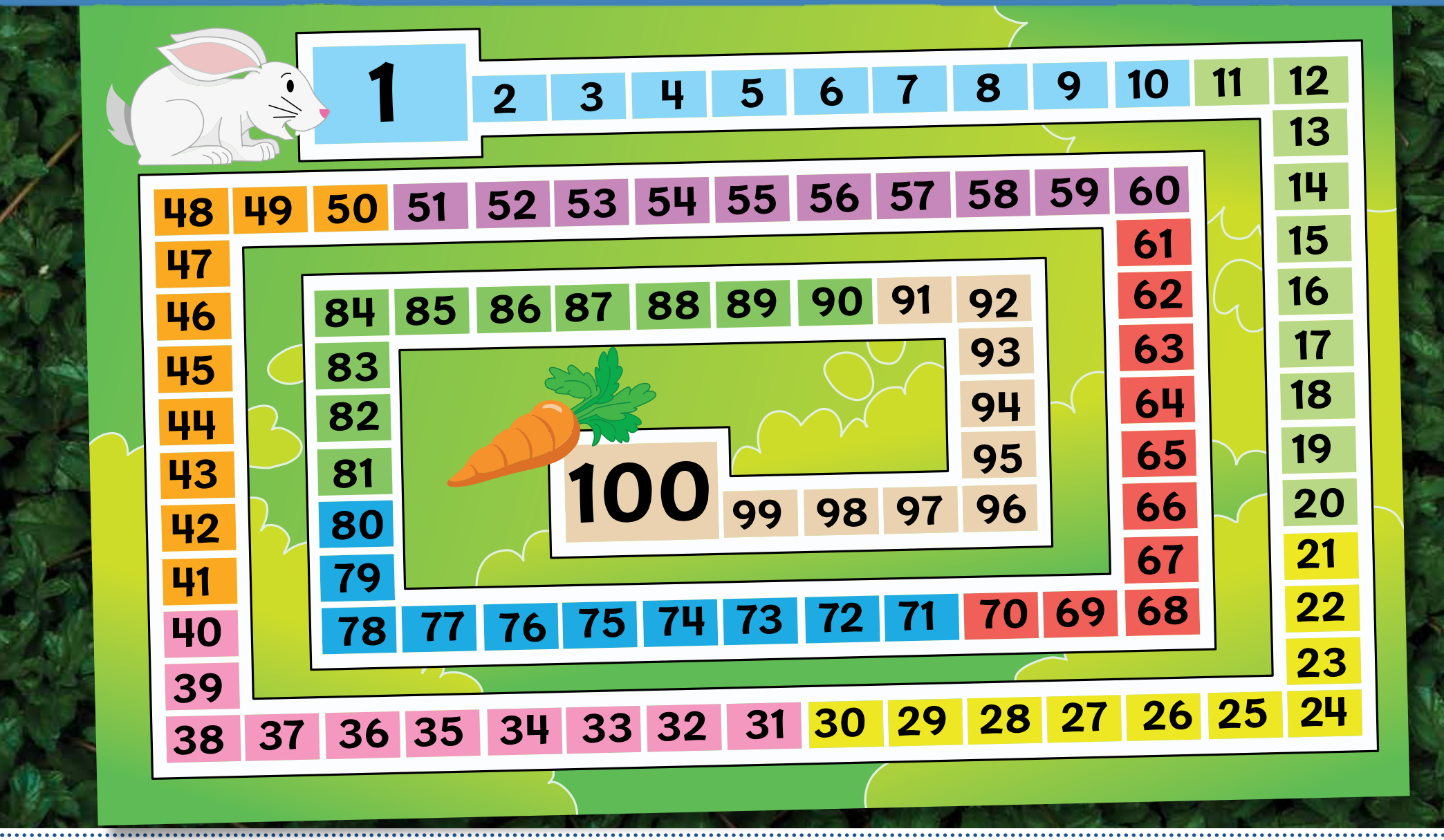
Develop Counting to 100 by Ones



Have children count by ones to 100 to help the bunny count its hops until it gets to the carrot. Tell children to point to the numbers to keep track. Have children circle all the numbers said when counting by tens.

Discuss It How does knowing how to count from 1 to 10 help you count to 100?

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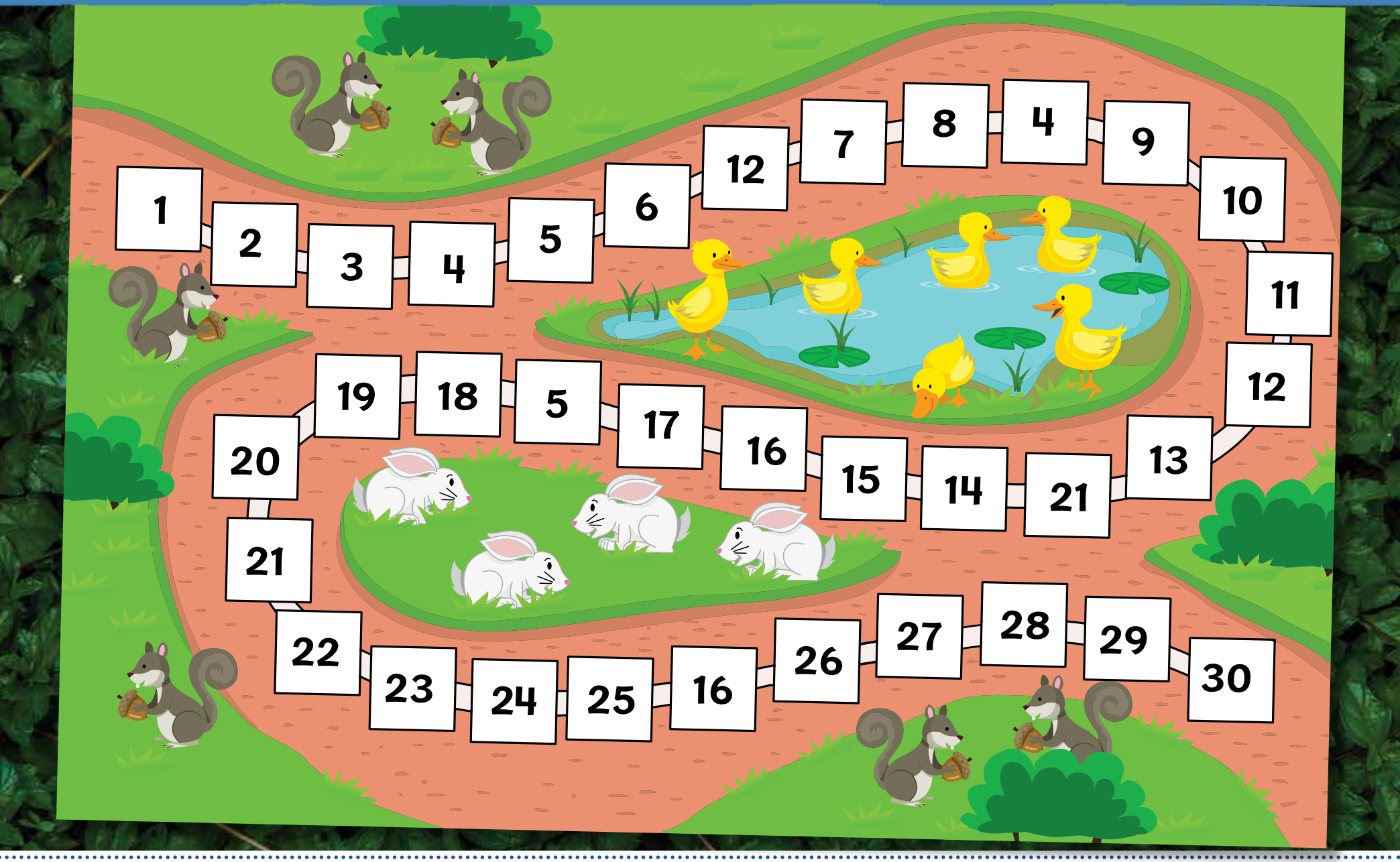

Have children count from 1 to 30. Have children point to each square as they count. When children get to a number that does not belong, have them cross it out. Then have children check by counting the numbers 1 to 30 that are left.

Discuss It How do you know which numbers do not belong? If you continued the path with 10 more squares, which numbers would you write?

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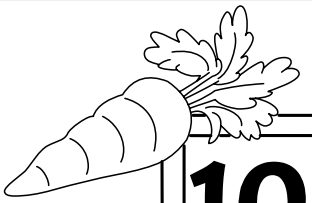
Practice Counting to 100 by Ones

1	2	3	4	5	6	7	8	9	10	11	12
											13
48	49	50	51	52	53	54	55	56	57	58	59	60	14
47												61	15
46	84	85	86	87	88	89	90	91	92			62	16
45	83								93			63	17
44	82								94			64	18
43	81								95			65	19
42	80								96	97	98	99	100	66	20
41	79											67	21
40	78	77	76	75	74	73	72	71	70	69	68	22
39													23
38	37	36	35	34	33	32	31	30	29	28	27	26	25	24



Have children use one color to color the first 10 spaces on the game board. Then have children color each group of 10 spaces a different color.

Have children move a counter along the board and count aloud by ones to 100.

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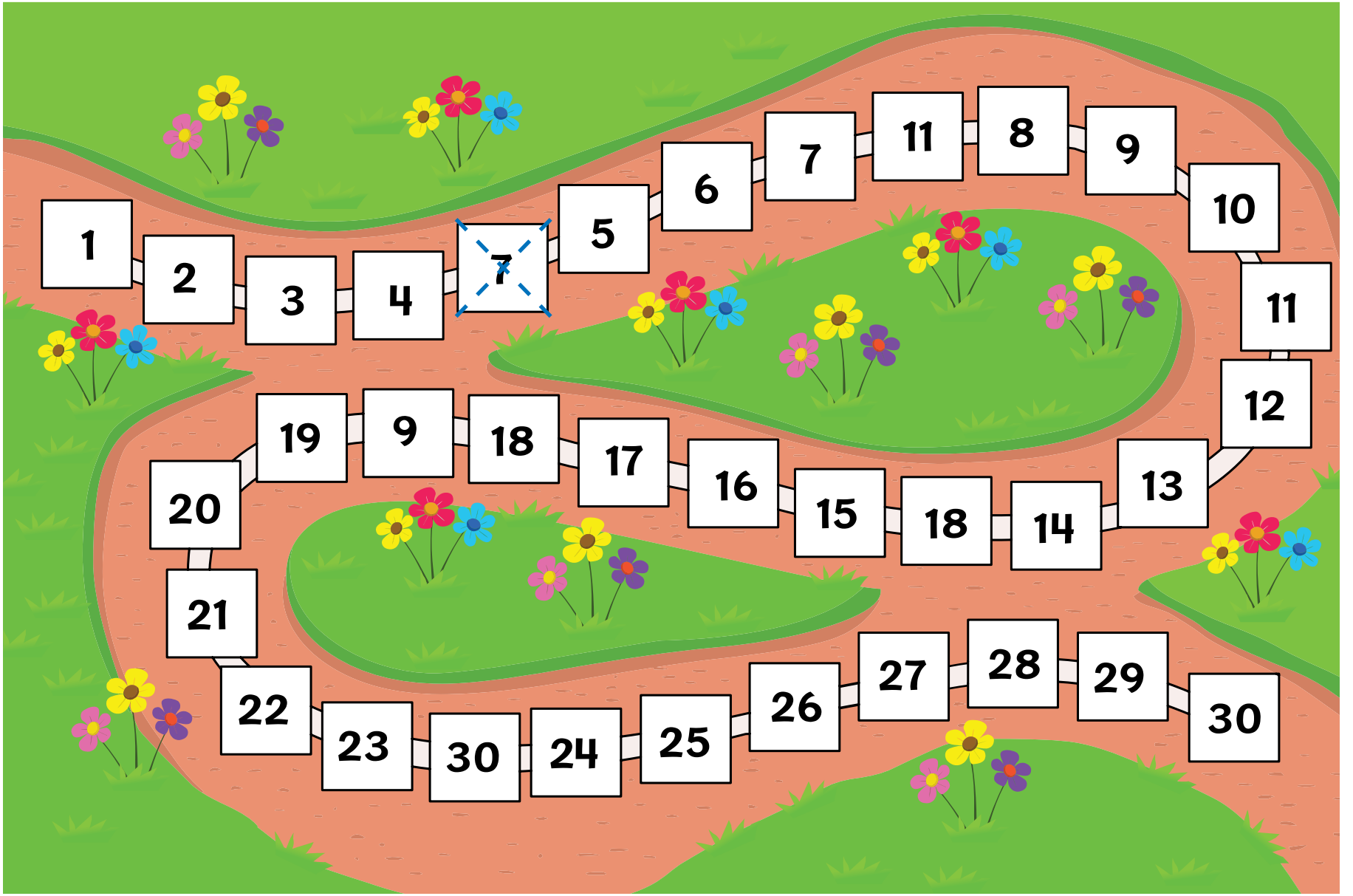

Have children count from 1 to 30, color the numbers they say, and cross out the numbers that do not belong. Then have children count from 1 to 30 again, pointing to each colored number as they say it.

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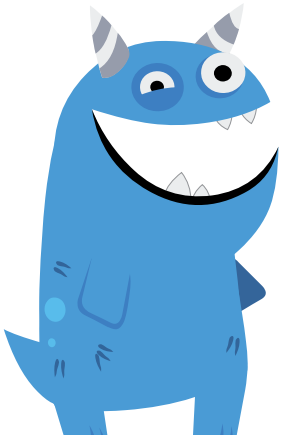
Develop Counting to 100 by Ones

Try It

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Math Toolkit

- connecting cubes

Have children find a missing number on a hundred chart. Give each pair a connecting cube. One child turns away while the other uses the cube to cover a number on the chart. The first child turns back and figures out which number is covered. Repeat.

Discuss It What helps you figure out which number has been covered?

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Connect It

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23		25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43		45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	
71	72	73	74	75	76	77	78	79	80
	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98		100

24	25	26
34	44	54
60	70	90
81	90	91
90	99	100

Have children circle the numbers that complete the hundred chart. Count aloud by ones until you get to the first box with a colored border. Together, determine the missing number and which one to circle. Count on together from 24 until you reach the next box.

Discuss It What patterns can you find in the hundred chart?

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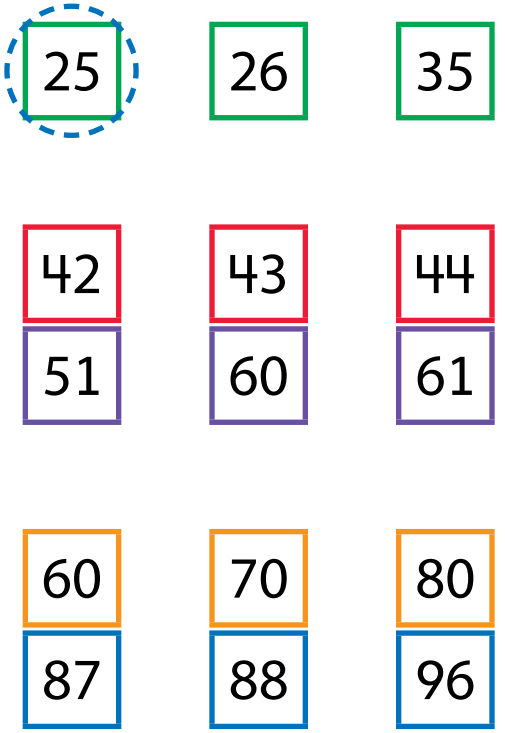
Practice Counting to 100 by Ones

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24		26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42		44	45	46	47	48	49	50
	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	
81	82	83	84	85	86		88	89	90
91	92	93	94	95	96	97	98	99	100



For each row on the hundred chart with a missing number, have children circle the number to the right that completes that row. Have them count aloud by ones until they get to the first box with a colored border.

Have children find the missing number to the right of the hundred chart and circle it. Have them count on until they reach the next box with a colored border, and repeat the process.

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1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27		29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51		53	54	55	56	57	58	59	60
61	62	63	64	65		67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	
	92	93	94	95	96	97	98	99	100

8	26	28
52	53	62
66	70	75
80	90	91
82	90	91

For each row on the hundred chart with a missing number, have children circle the number to the right that completes that row. Have children count aloud by ones until they get to the first box with a colored border. Have children find the missing number to the right of the hundred chart and circle it. Have them count on until they reach the next box with a colored border, and repeat the process.

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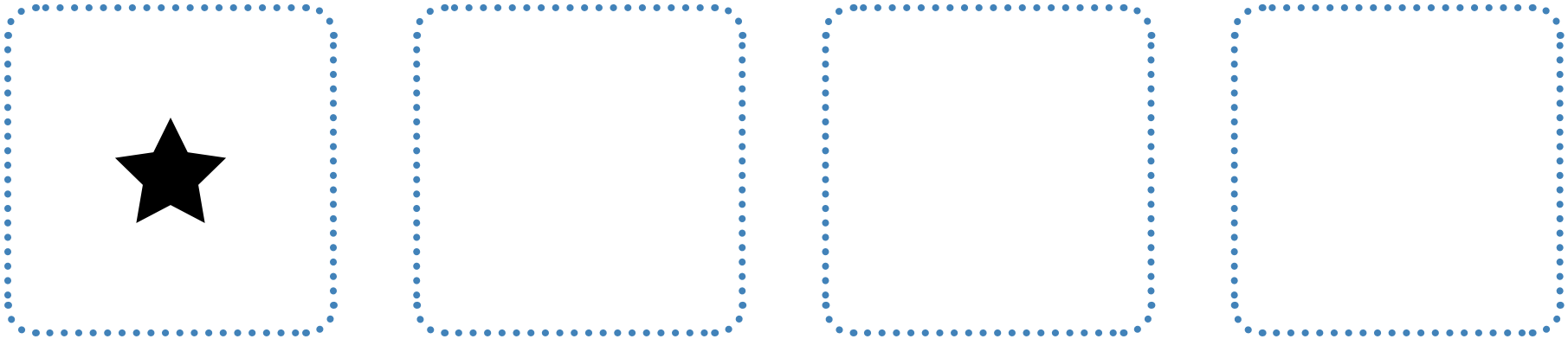
Refine Counting to 100 by Ones

Apply It

Math Toolkit

- number cards



Give partners 4 consecutive 2-digit cards, such as 34, 35, 36, 37. Have children put the cards on the page in order, starting with the card with a star. One child looks away while the other turns over one card. The first child figures out which number is missing. Repeat.

Discuss It How did you figure out which number had been turned over?

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35 37 45

33 34 ☐ 36

40 50 51

47 48 49 ☐

61 63 70

59 60 ☐ 62

80 90 100

97 98 99 ☐

23 24 25

☐ 26 27 28

79 80 84

☐ 81 82 83

Have children circle the correct number to complete each list. Read the list of numbers aloud, and discuss. Allow the class time to work out a strategy for determining the correct choice.

Discuss It How did you decide which number to circle?

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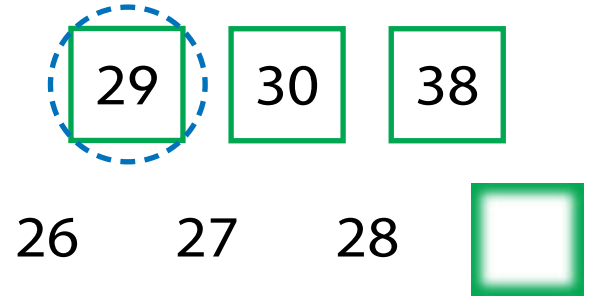
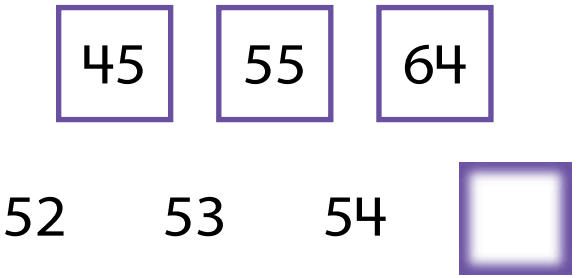
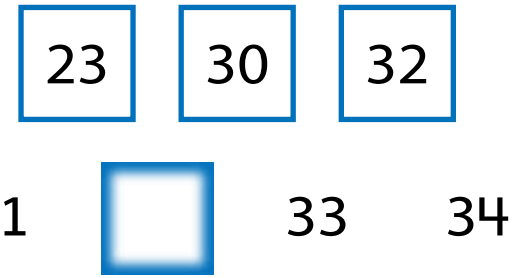
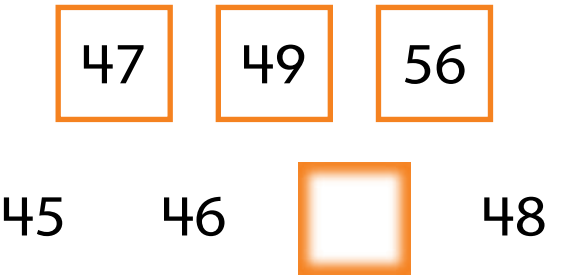
Practice Counting to 100 by Ones

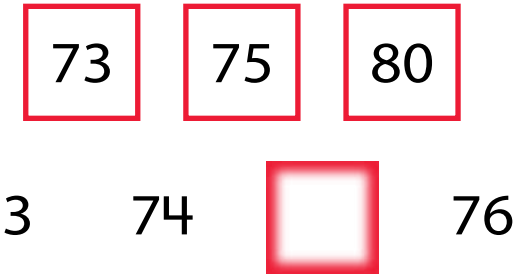
Example

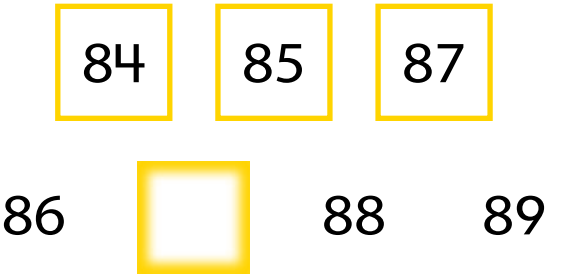












Have children circle the correct number to complete each list. Have children read aloud the list of numbers in the bottom row of each problem, decide what the missing number is, and circle that number above. Then have children read the completed list of numbers to check their answer.

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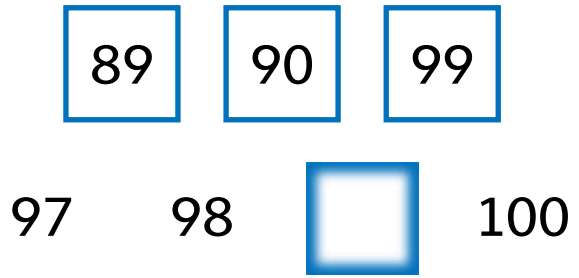

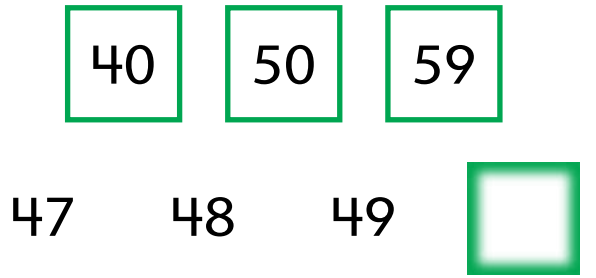

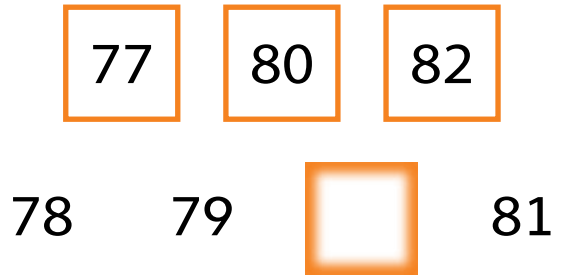

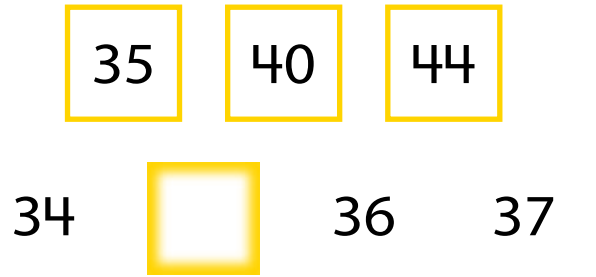

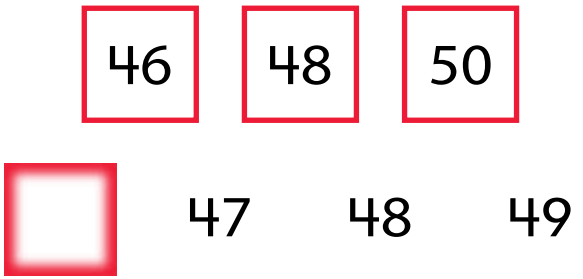

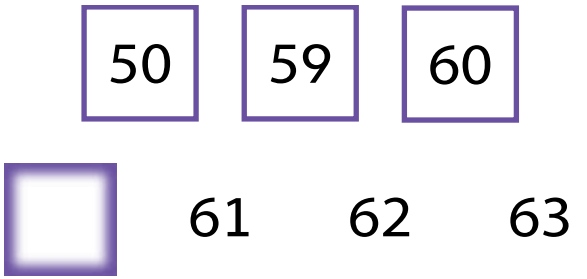

Have children circle the correct number to complete each list. Have children read aloud the list of numbers in the bottom row of each problem, decide what the missing number is, and circle that number above. Then have children read the completed list of numbers to check their answer.

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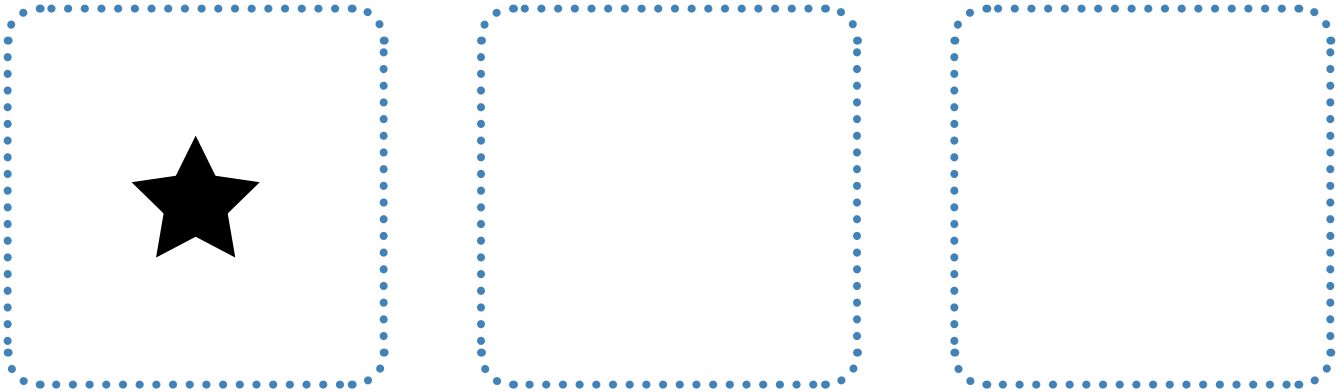
Refine Counting to 100 by Ones

Apply It

Math Toolkit

- number cards



Give pairs of children four 2-digit cards, three consecutive and one not, such as 42, 43, 44, 54. Have children place the card with a star on the workmat. Then have them place the numbers that come next and find the number that does not belong. Repeat.

Discuss It How did you find which number does not belong? Did your partner find that number in a different way?

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	20	21	22	32	24	25	26

	57	58	59	60	61	61	63

	74	75	76	77	78	79	88

Have children cross out the box that shows the incorrect number on the number path. Read each list of numbers aloud, and have children independently decide which number does not belong. Check answers as a class, asking children to say the correct number.

Discuss It How did you decide which numbers did not belong?

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