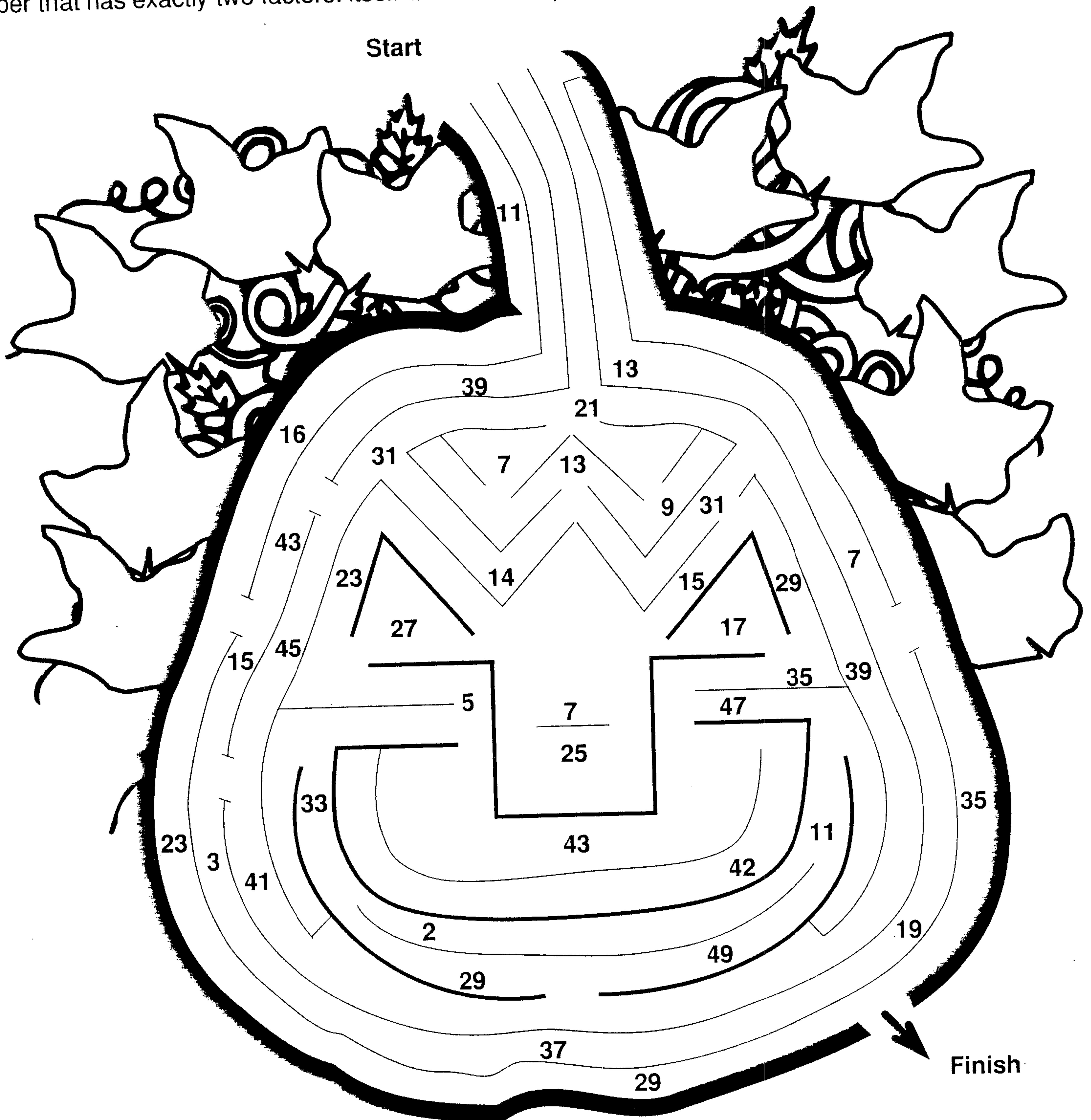


Name \_\_\_\_\_

## Take The "Prime-ary" Path!

Find your way through this pumpkin maze, from start to finish. Sounds easy, right? There's one catch though: Your path can cross *only* prime numbers. Remember that a *prime number* is a number that has exactly two factors: itself and 1. Use a pencil to draw your route.



Now that you've made your way through the maze, list the ten prime numbers between 50 and 100 on the leaves, one number per leaf.

**Bonus Box:** Multiply the following prime factors to find the weight of the largest pumpkin ever grown:  $2 \times 3 \times 3 \times 5 \times 11 =$  \_\_\_\_\_ pounds.

Name \_\_\_\_\_



Date \_\_\_\_\_  
(Answer ID # 0967600)

Prime and Composite Numbers

Classify each number as prime or composite.

1. 4 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	2. 14 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	3. 13 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	4. 12 <input type="checkbox"/> Prime <input type="checkbox"/> Composite
5. 30 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	6. 53 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	7. 28 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	8. 11 <input type="checkbox"/> Prime <input type="checkbox"/> Composite
9. 26 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	10. 47 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	11. 21 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	12. 96 <input type="checkbox"/> Prime <input type="checkbox"/> Composite
13. 81 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	14. 42 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	15. 29 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	16. 49 <input type="checkbox"/> Prime <input type="checkbox"/> Composite
17. 97 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	18. 56 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	19. 75 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	20. 63 <input type="checkbox"/> Prime <input type="checkbox"/> Composite
21. 99 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	22. 79 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	23. 82 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	24. 19 <input type="checkbox"/> Prime <input type="checkbox"/> Composite
25. 39 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	26. 16 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	27. 58 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	28. 71 <input type="checkbox"/> Prime <input type="checkbox"/> Composite
29. 76 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	30. 43 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	31. 61 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	32. 20 <input type="checkbox"/> Prime <input type="checkbox"/> Composite
33. 90 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	34. 74 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	35. 7 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	36. 45 <input type="checkbox"/> Prime <input type="checkbox"/> Composite
37. 18 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	38. 98 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	39. 35 <input type="checkbox"/> Prime <input type="checkbox"/> Composite	40. 59 <input type="checkbox"/> Prime <input type="checkbox"/> Composite

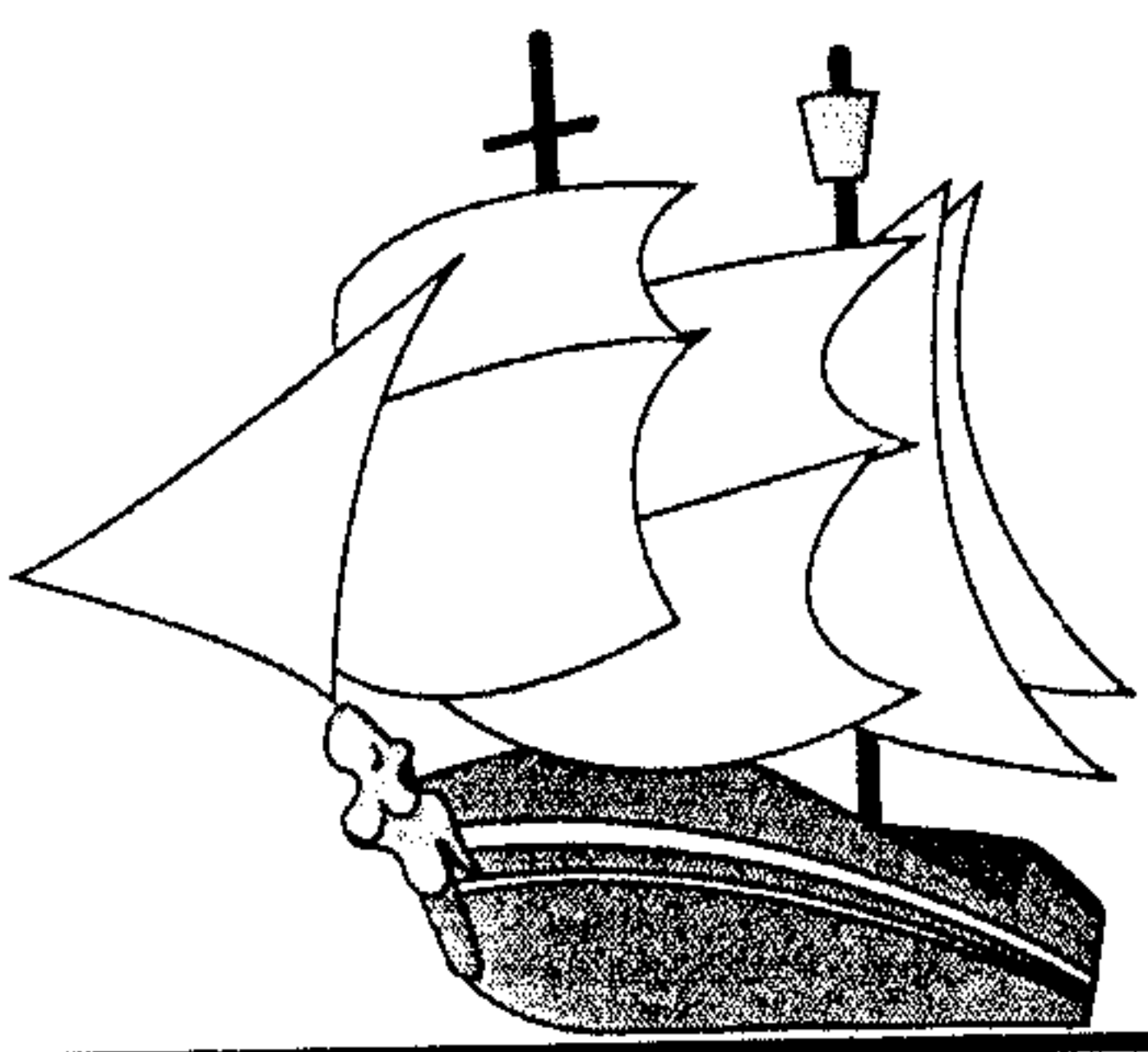
Answer Key 0967600			
1. 4 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	2. 14 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	3. 13 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite	4. 12 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite
5. 30 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	6. 53 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite	7. 28 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	8. 11 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite
9. 26 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	10. 47 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite	11. 21 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	12. 96 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite
13. 81 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	14. 42 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	15. 29 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite	16. 49 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite
17. 97 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite	18. 56 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	19. 75 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	20. 63 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite
21. 99 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	22. 79 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite	23. 82 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	24. 19 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite
25. 39 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	26. 16 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	27. 58 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	28. 71 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite
29. 76 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	30. 43 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite	31. 61 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite	32. 20 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite
33. 90 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	34. 74 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	35. 7 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite	36. 45 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite
37. 18 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	38. 98 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	39. 35 <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Composite	40. 59 <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Composite

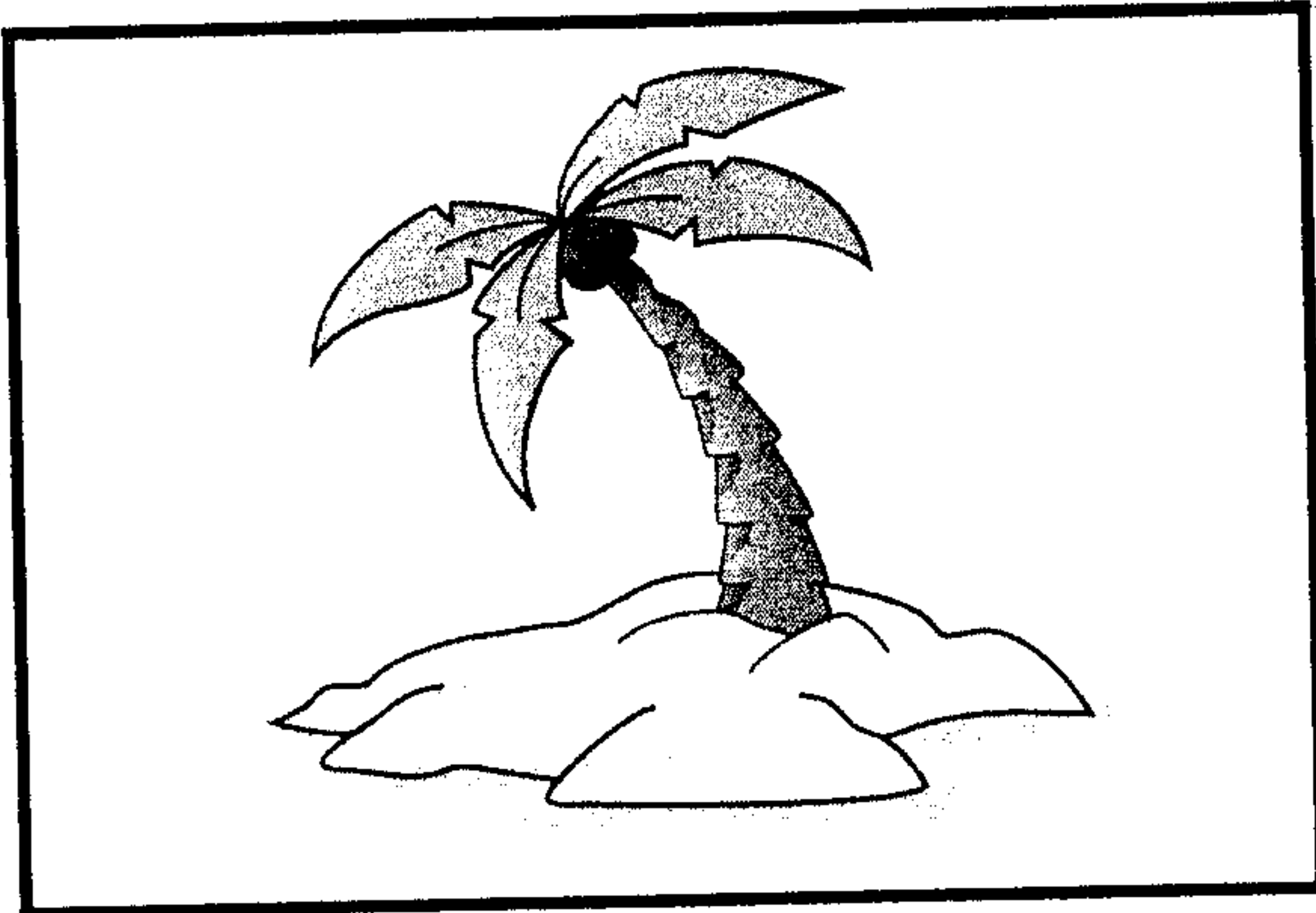


# Prime Number Maze

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Help the pirates find their secret island by following the path of composite (non-prime) numbers.

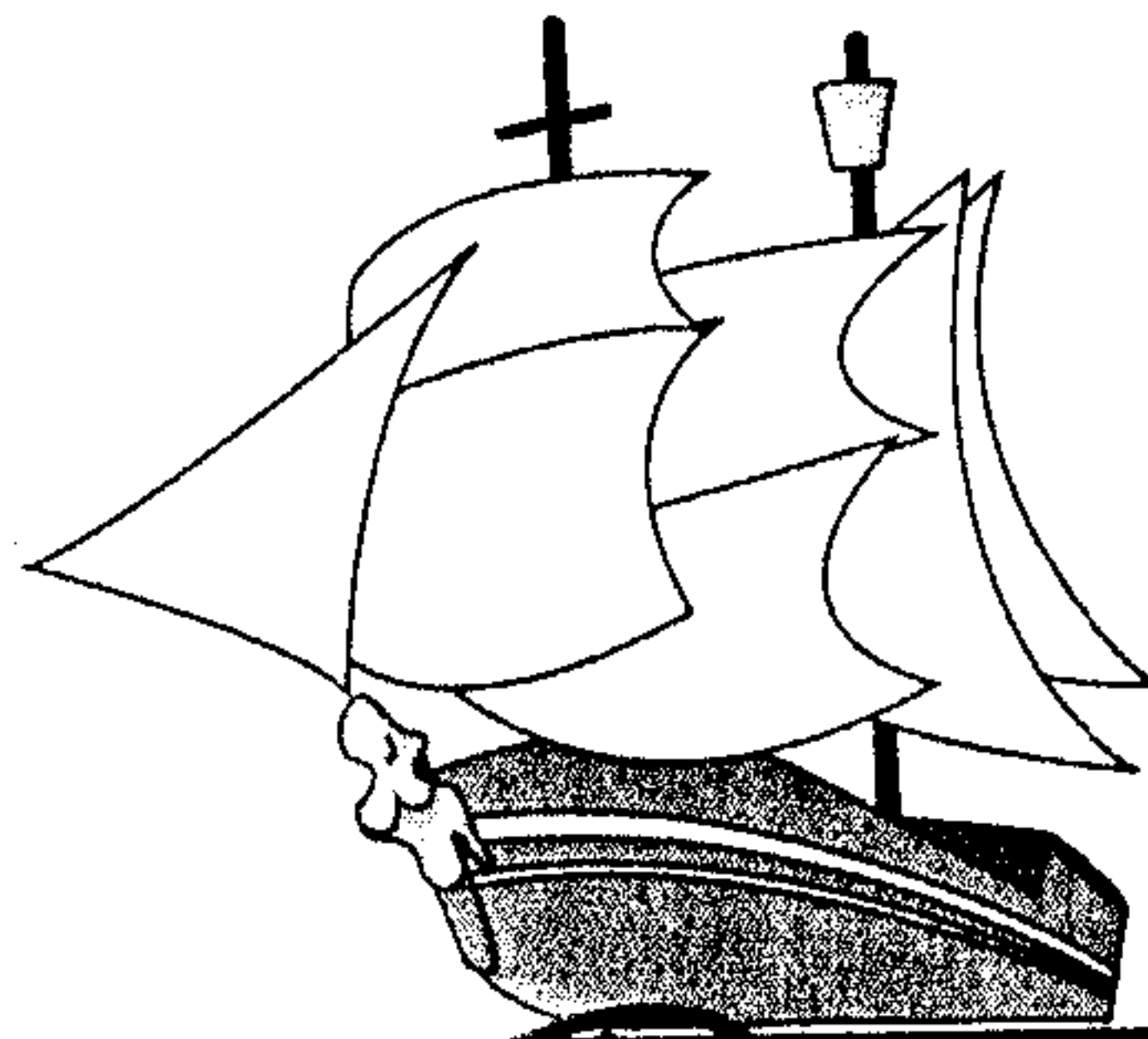


3	19	67	13	2	89	15	89	29	11	61	11	2
2	79	61	53	53	29	15	23	65	57	56	31	3
5	89	61	83	23	23	33	77	45	79	44	54	62
59	73	7	67	3	47	23	7	23	19	29	13	20
43	31	71	23						31	47	67	60
2	73	3	5						7	37	31	60
11	53	73	73						7	41	2	84
47	19	39	9						41	60	63	40
79	56	20	3	19	71	59	5	23	23	8	41	7
31	40	41	31	17	59	14	9	63	71	63	58	86
7	72	73	71	3	73	25	53	60	29	67	23	66
11	42	8	30	38	12	9	41	14	60	76	69	78

# Prime Number Maze

## ANSWER KEY

Help the pirates find their secret island by following the path of composite (non-prime) numbers.



3	19	67	13	2	89	15	89	29	11	61	11	2
2	79	61	53	53	29	15	23	65	57	56	31	3
5	89	61	83	23	23	33	77	45	79	44	54	62
59	73	7	67	3	47	23	7	23	19	29	13	20
43	31	71	23						31	47	67	60
2	73	3	5						7	37	31	60
11	53	73	73						7	41	2	84
47	19	39	9						41	60	63	40
79	56	20	3	19	71	59	5	23	23	8	41	7
31	40	41	31	17	59	14	9	63	71	63	58	86
7	72	73	71	3	73	25	53	60	29	67	23	66
11	42	8	30	38	12	9	41	14	60	76	69	78



# OUR READERS WRITE

539

## Prime and Composite Tic-Tac-Toe

For a quick review of **prime and composite numbers**, I have student pairs play tic-tac-toe. To play, each student chooses a different-colored marker. Player One writes a composite number on a square; then Player Two writes a prime number. The students continue taking turns until one gets three squares in a row, in a column, or diagonally. Once a winner has been declared, I have students switch places and repeat the game. I also use this game to review common and proper nouns or states and their capitals!

Linda Messner, Wilson Christian Academy, West Mifflin, PA

12	40	24
3	19	6
16	23	7

## Reinforcing Covers

To prolong the lives of **magazines** my students love to read, I attach clear Con-Tact covering to the front and back covers. Now our classroom magazines last much longer, ensuring that all students have a chance to read them.

Camille Foreman, Red Bank Middle School, Red Bank, NJ



## Put It to Music!

To help my students remember the **helping verbs**, we sing the song below. When former students visit, they tell me how much this song helped them even throughout high school!

Mary Beth Endicott, St. Joseph Elementary, Crescent Springs, KY

### The Helping Verb Song (sung to the tune of "Jingle Bells")

Helping verbs, helping verbs—  
There are 23.

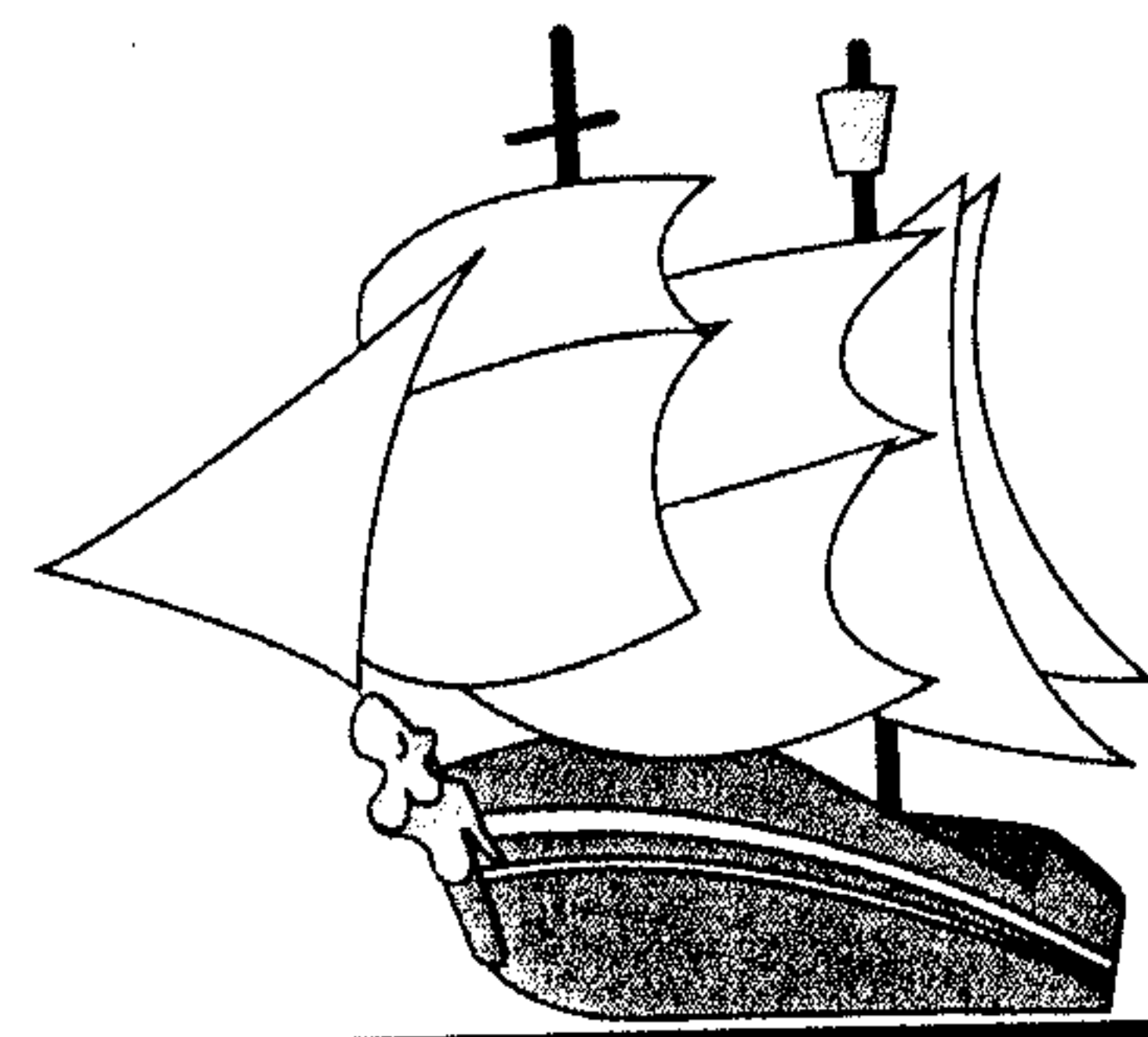
*Am, is, are, was, and were,  
Being, been, and be.*

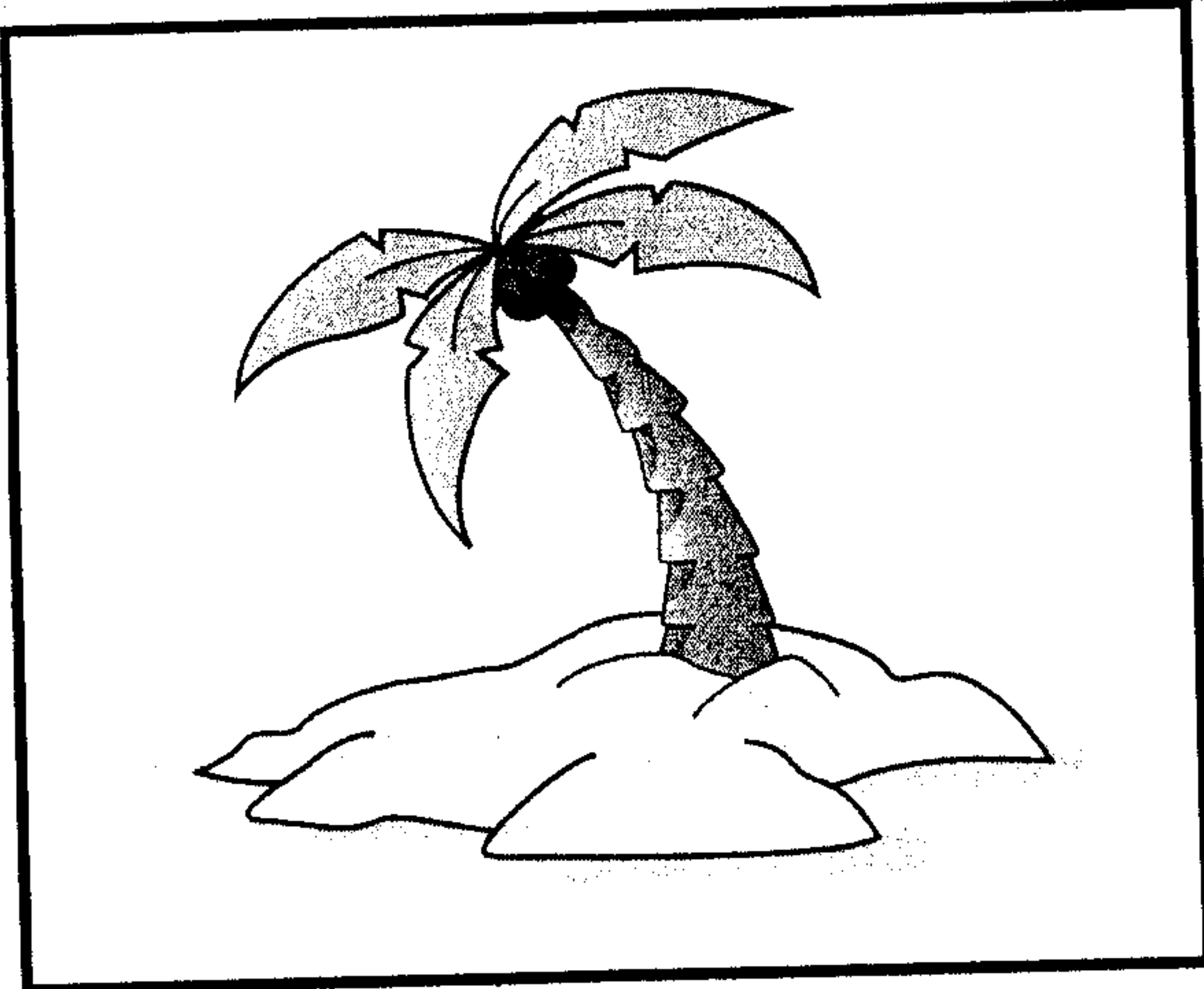
*Have, has, had, do, does, did,  
Shall, should, will, and would.*  
There are five more helping verbs:  
*May, might, must, can, could!*

# Prime Number Maze

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Help the pirates find their secret island by following the path of prime numbers.

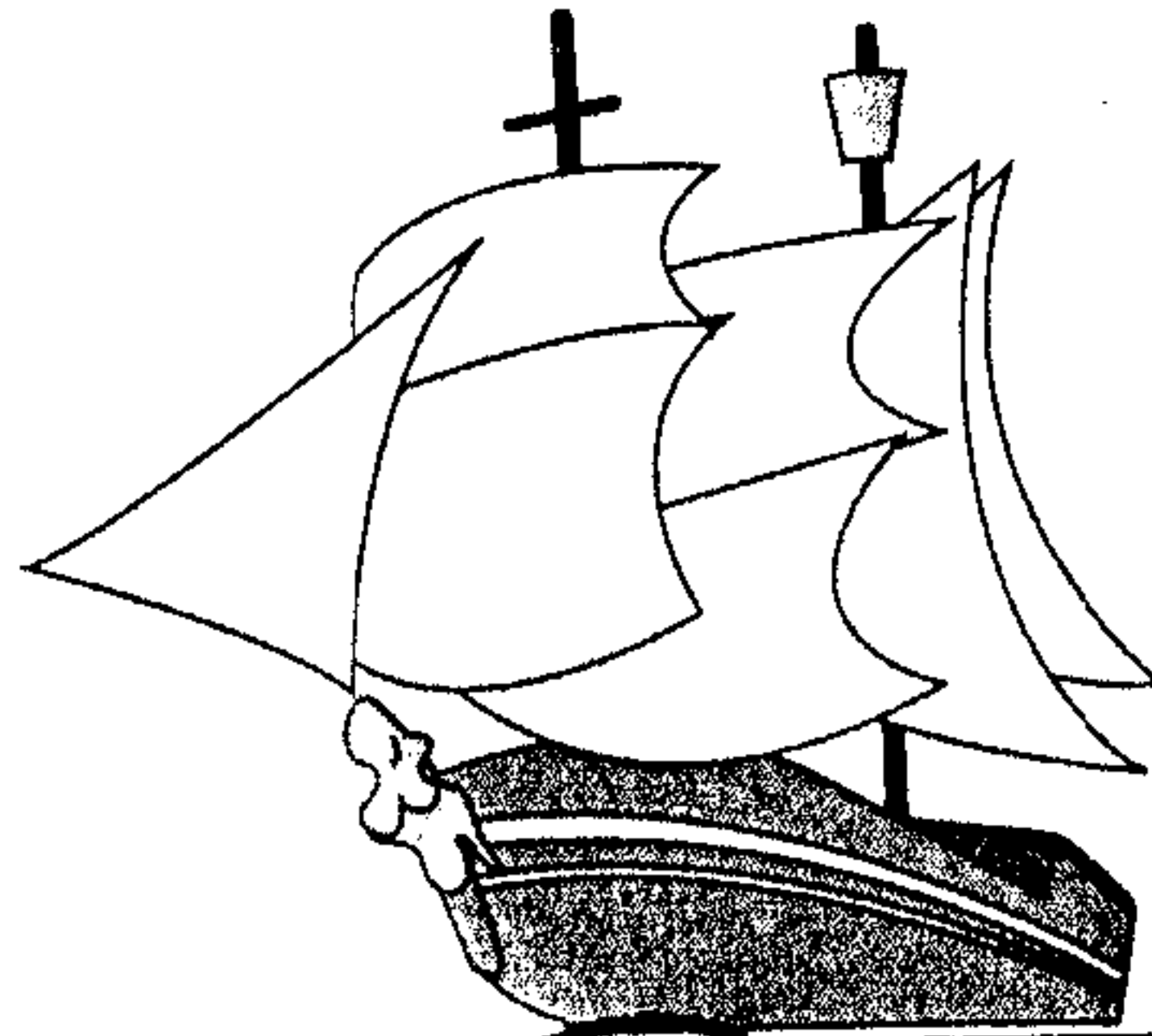


48	35	39	21	8	45	2	60	44	49	30	26	51
10	9	36	32	38	60	67	84	76	69	58	35	22
85	39	43	3	7	3	47	26	62	78	60	9	28
18	26	5	14	57	18	42	81	80	38	78	8	14
76	68	73	44					48	83	3	47	
2	5	67	42					67	11	33	7	
41	12	22	10					42	66	74	73	
31	66	48	52					72	18	66	31	
71	7	67	64					58	42	30	67	
32	72	47	36	14	21	69	9	82	42	12	9	41
88	55	37	60	30	60	53	43	37	42	43	37	7
87	69	37	5	38	7	31	82	79	8	89	14	88
8	88	63	83	23	11	27	60	5	17	73	10	82



# Prime Number Maze ANSWER KEY

Help the pirates find their secret island by following the path of prime numbers.



48	35	39	21	8	45	2	60	44	49	30	26	51
10	9	36	32	38	60	67	84	76	69	58	35	22
85	39	43	3	7	3	47	26	62	78	60	9	28
18	26	5	14	57	18	42	81	80	38	78	8	14
76	68	73	44					48	83	3	47	
2	5	67	42					67	11	33	7	
41	12	22	10					42	66	74	73	
31	66	48	52					72	18	66	31	
71	7	67	64					58	42	30	67	
32	72	47	36	14	21	69	9	82	42	12	9	41
88	55	37	60	30	60	53	43	37	42	43	37	7
87	69	37	5	38	7	31	82	79	8	89	14	88
8	88	63	83	23	11	27	60	5	17	73	10	82

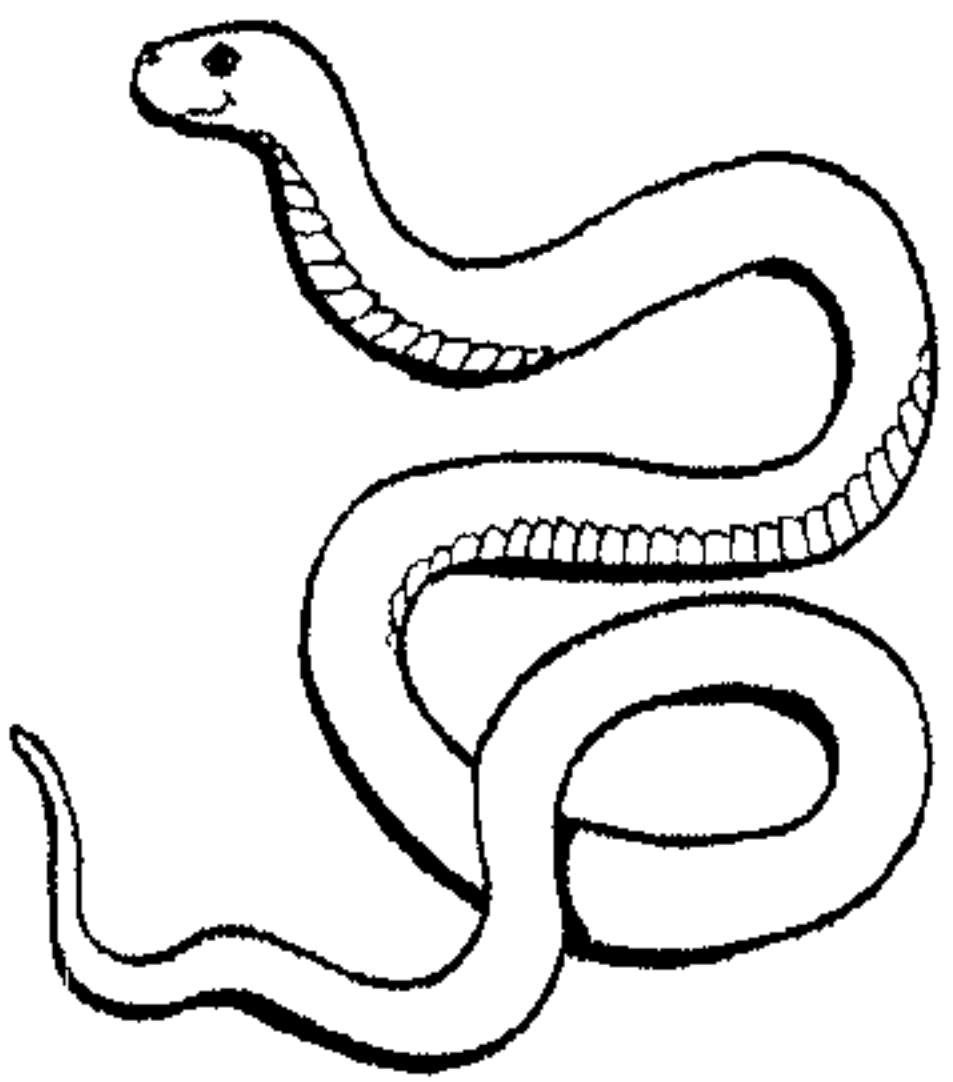


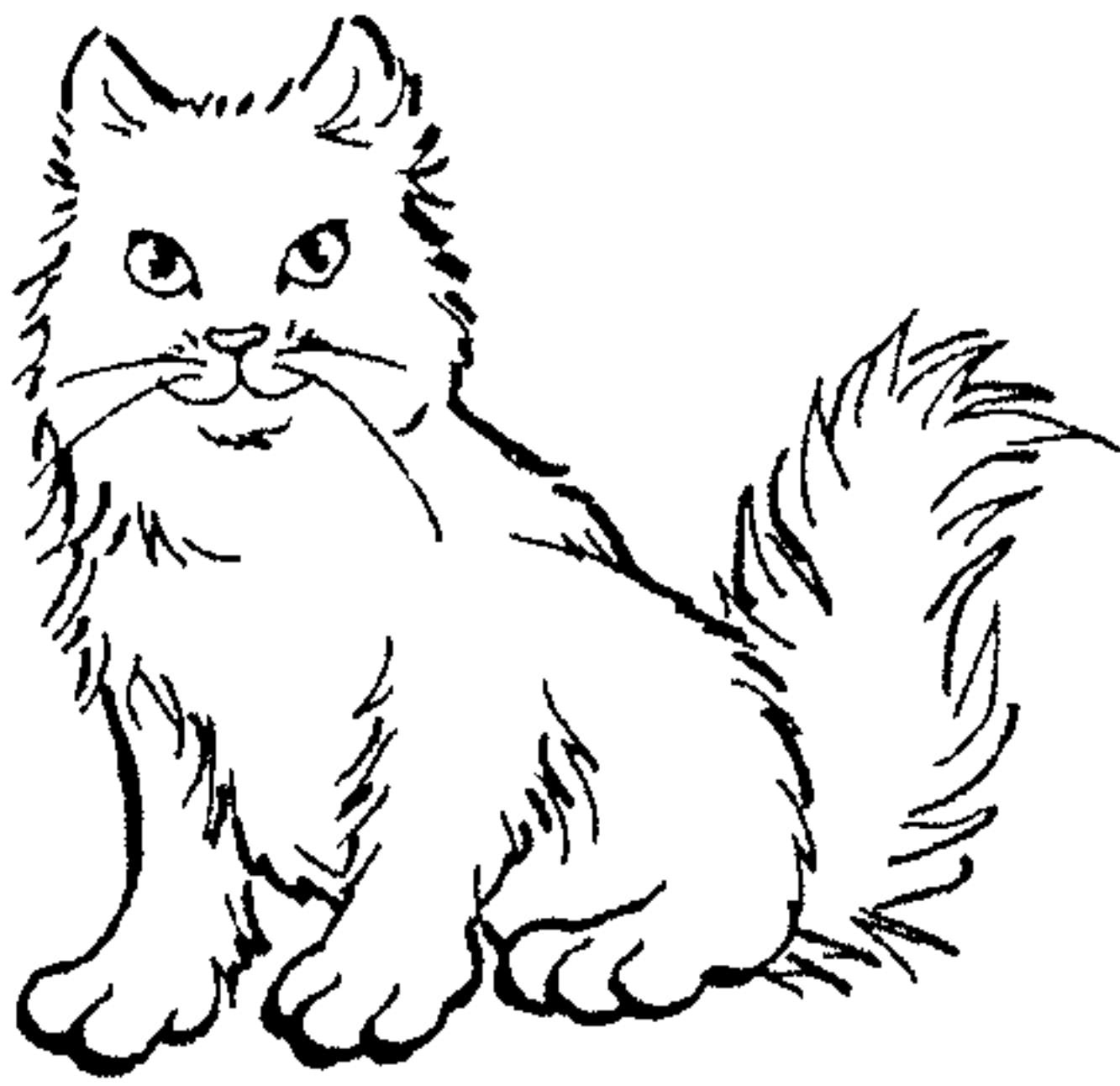
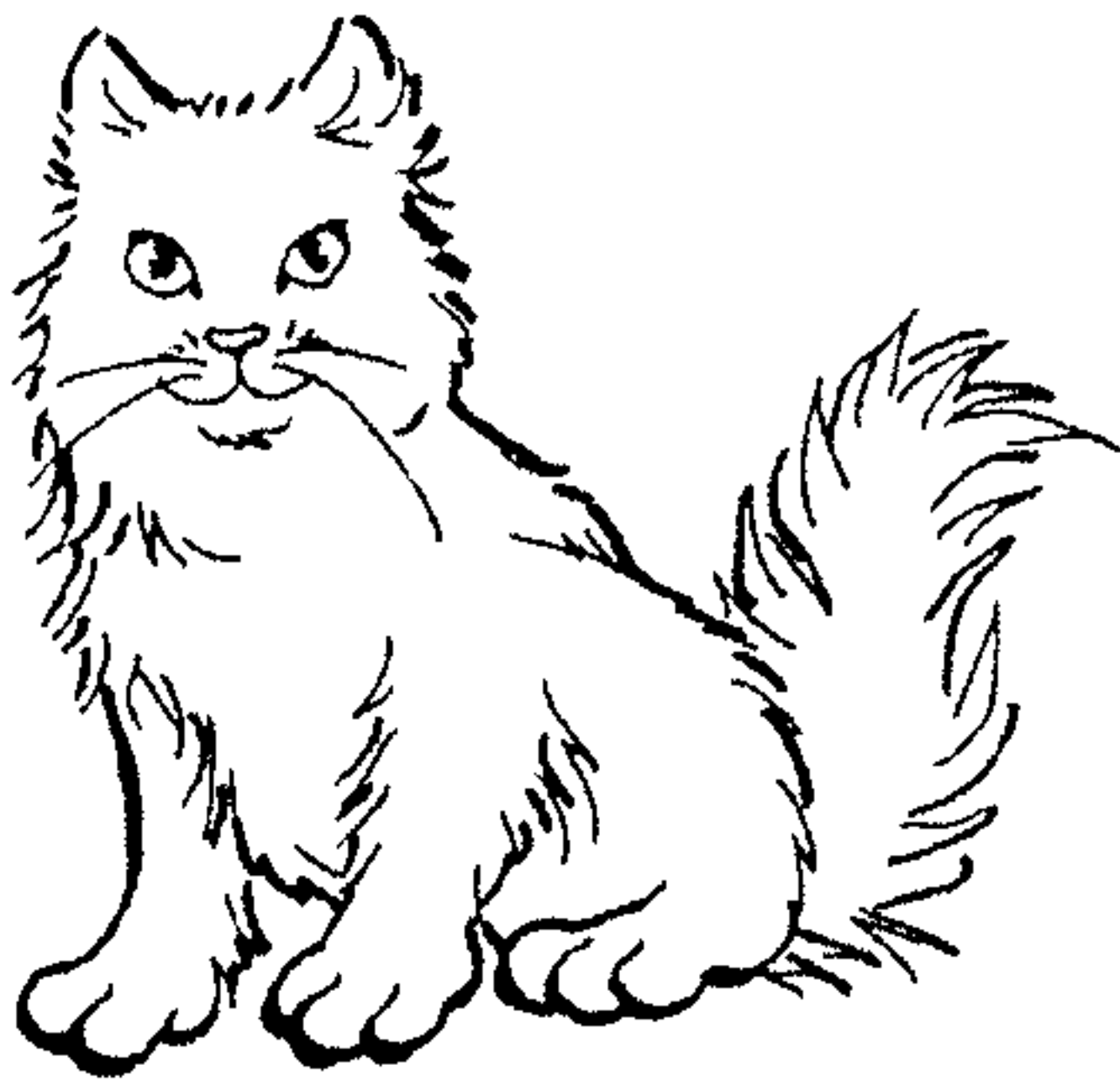
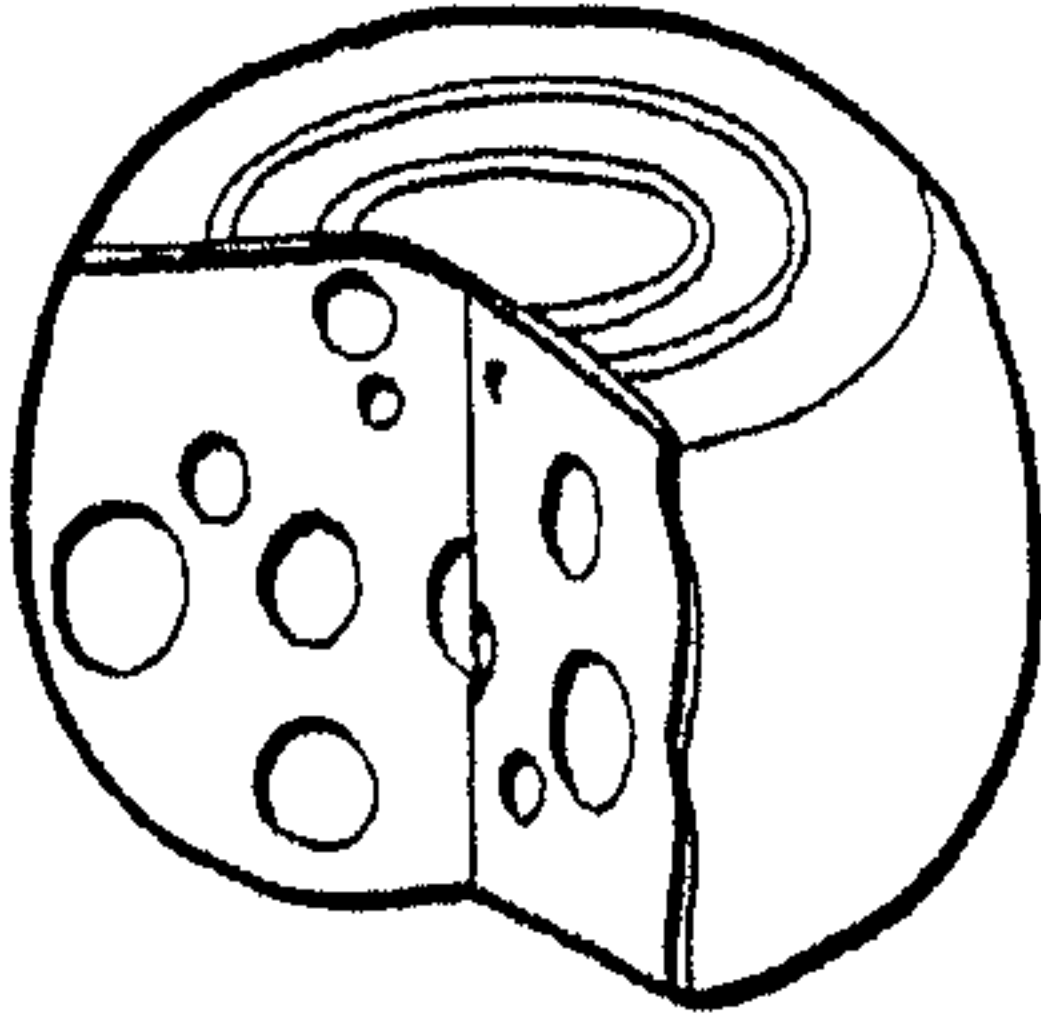
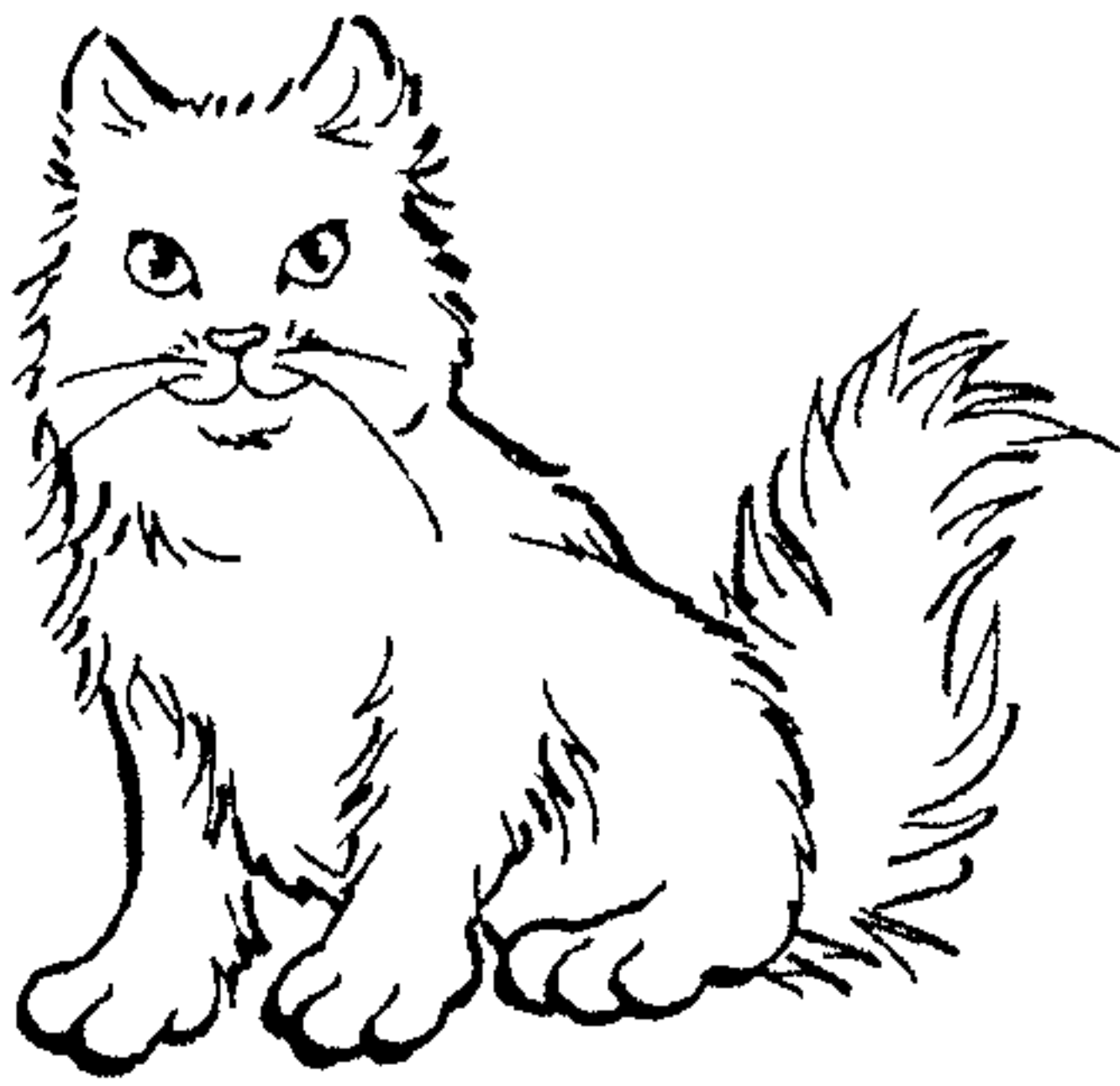
Name: \_\_\_\_\_

## The Odd Mouse Path

Color the boxes with odd numbers in them.  
Can you make a trail to help the mouse find the cheese?



3	57	93	90	38	40	14	34	16	2	36
46	8	51	42	10	28	50				2
14	10	65	88	96	70	48				58
2	87	79	30	20	8	20				22
										4

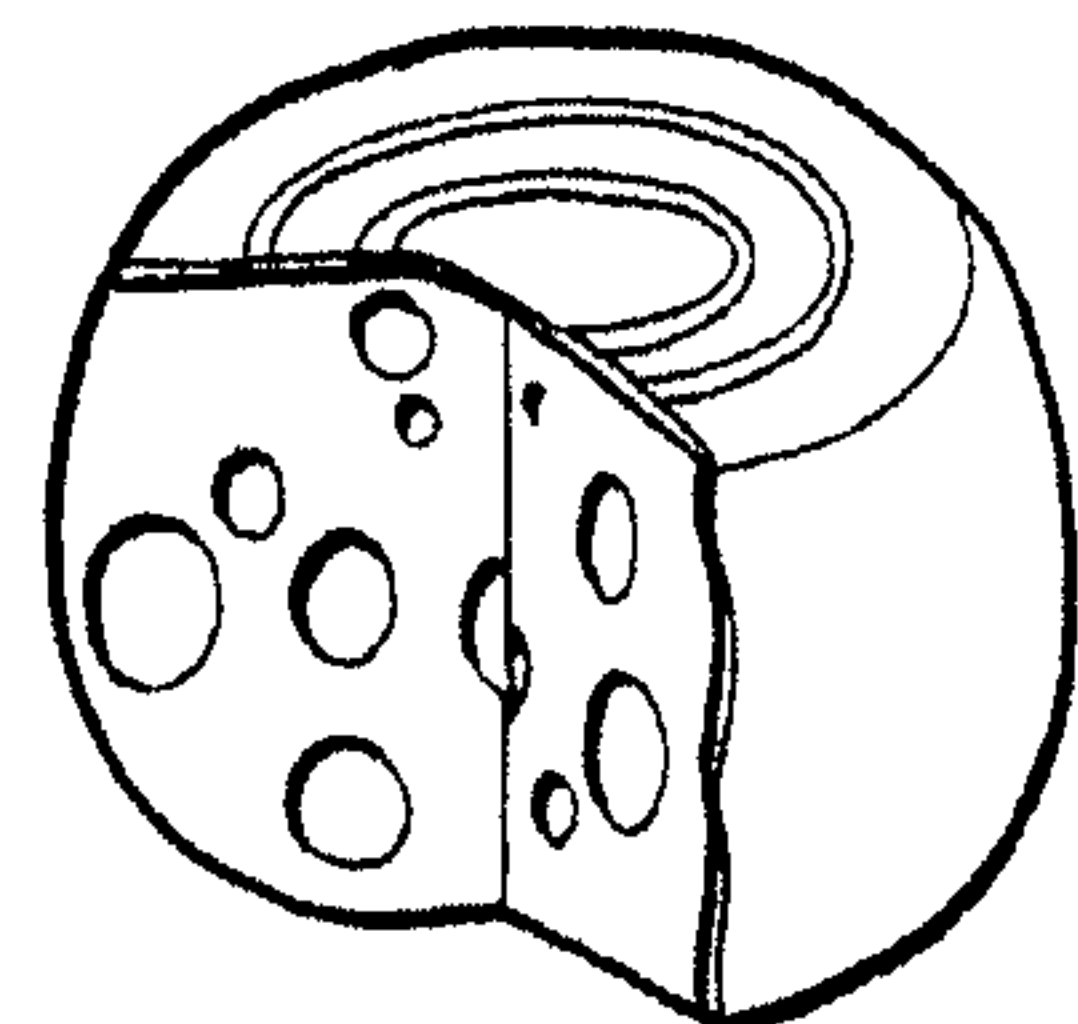
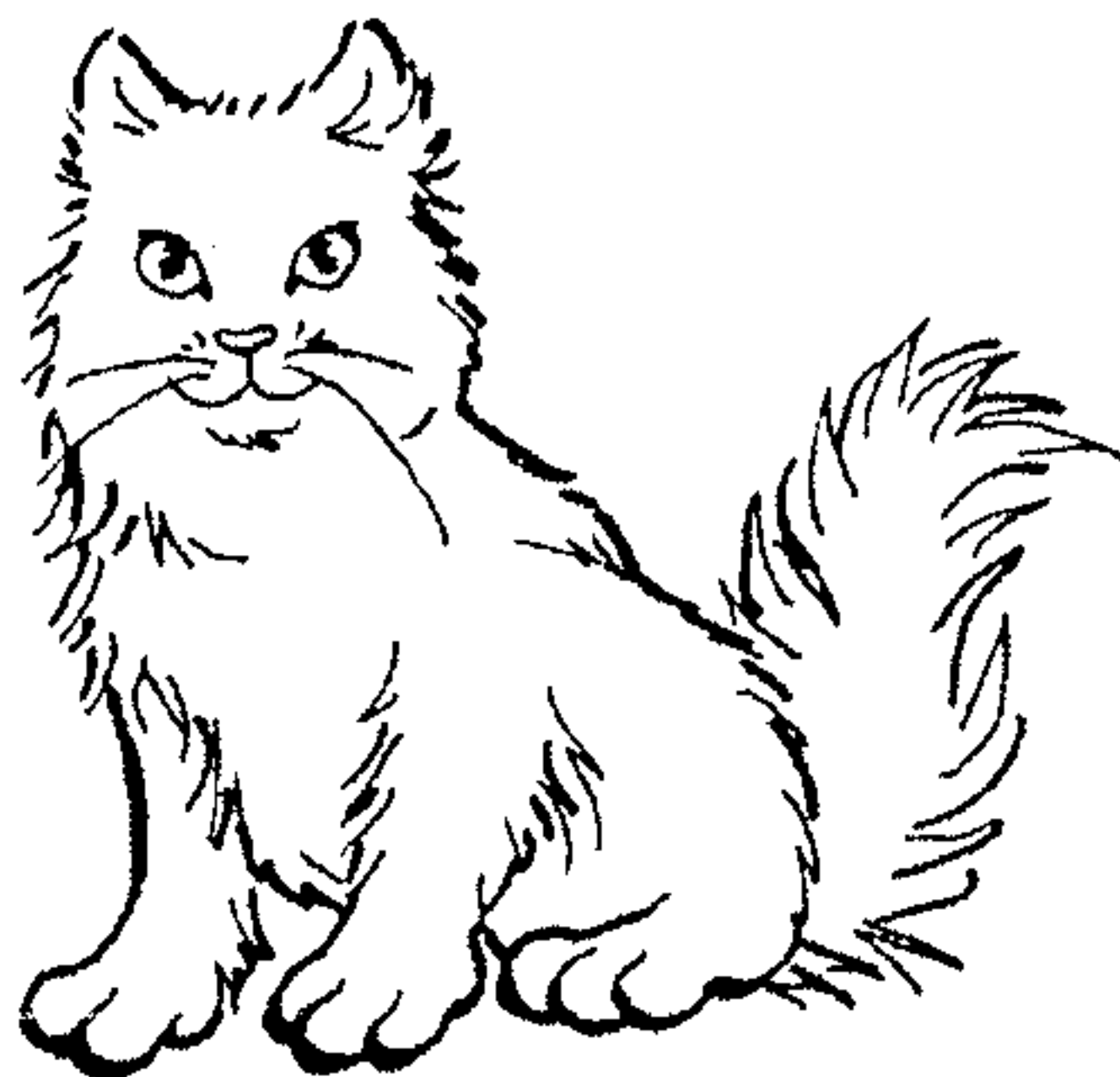
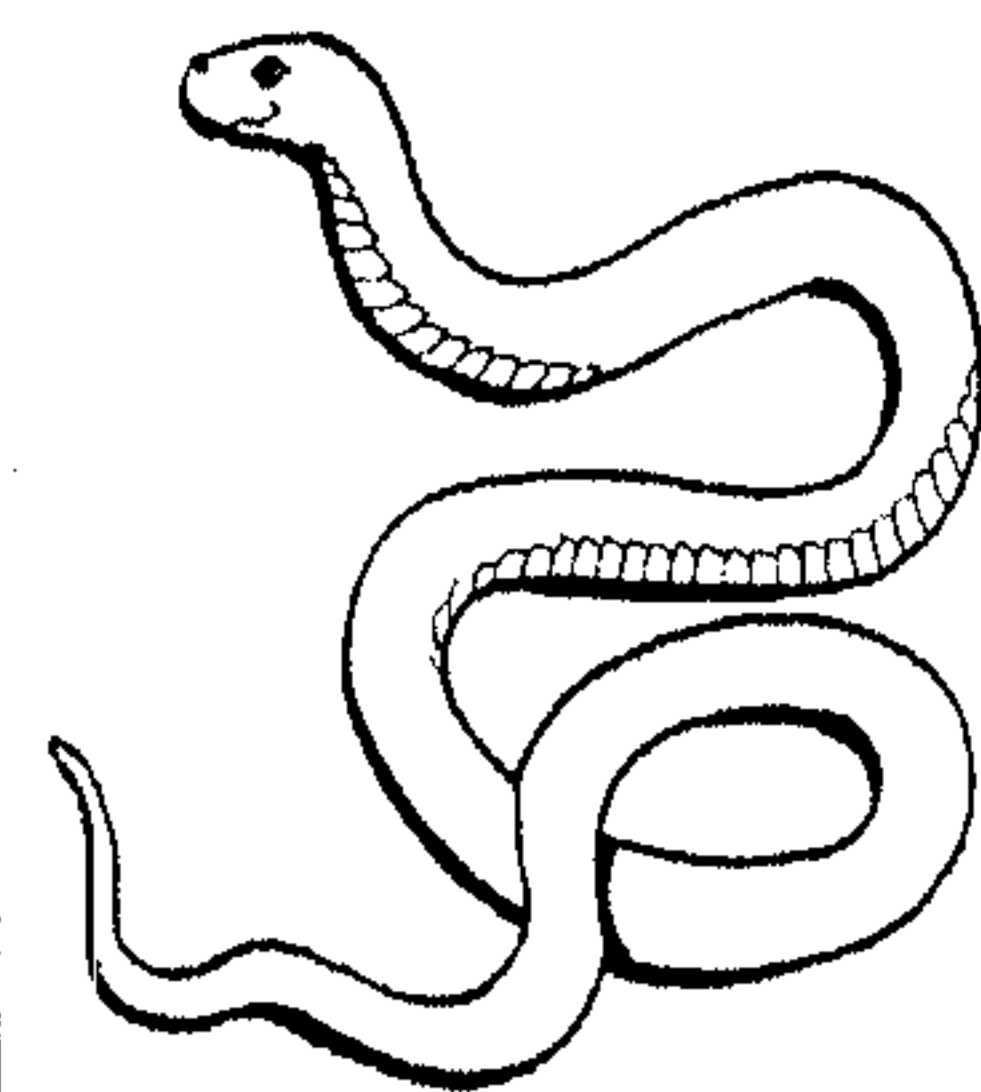
24	56	78	34	42	1	80	16	26	18	24				
40	50	72	54	6	55	44	34	20	38	64				
84	51	9	97	43	31	40	22	6	99	29				
26	13	74	82	8	50	68	0	66	79	18				
76	49	32					4	78	57	16	92	1	62	58
28	7	60					12	64	59	12	8	17	60	2
81	21	72					80	76	31	86	90	99	94	58
47	74	6					62	34	87	22				
93	0	72					0	73	31	96				
25	36	52					28	29	48	4				
15	69	11					21	85	2	10				

# ANSWER KEY

Name: \_\_\_\_\_

# The Odd Mouse Path

Color the boxes with odd numbers in them.  
Can you make a trail to help the mouse find the cheese?





Name: \_\_\_\_\_

5.3b

# Even and Odd

## Word Problems



- a. Do you usually buy an odd number of shoes or an even number of shoes? \_\_\_\_\_
- b. When you buy a dozen eggs are you getting an odd or even number of eggs? \_\_\_\_\_
- c. Is there an odd or even number of letters in the alphabet? \_\_\_\_\_
- d. Even numbers must end with a 2, 4, 6, 8, or \_\_\_\_\_. \_\_\_\_\_
- e. Odd numbers must end with a 1, 3, 5, 7, or \_\_\_\_\_. \_\_\_\_\_
- f. Which of these numbers is odd 22, 44, 66, or 77? \_\_\_\_\_
- g. Which of these numbers is even: 65, 83, 26, or 91? \_\_\_\_\_
- h. Subtract 9 from 18. Is the answer even or odd? \_\_\_\_\_
- i. Add 9 and 18 together. Is the answer even or odd? \_\_\_\_\_
- j. Which shape has an odd number of sides: triangle, square, rectangle, or octagon? \_\_\_\_\_
- k. Does a car usually have an odd or even number of tires? \_\_\_\_\_
- l. Jenna, Hannah, Jessica, Patty, and Lily eat lunch together at the same table. Are there an odd or even number of girls at the table? \_\_\_\_\_
- m. In a basketball game, the Lakers scored 101 points. The Bulls scored 104 points. Which team scored an odd number of points? \_\_\_\_\_

# ANSWER KEY

## Even and Odd

### Word Problems



- a. Do you usually buy an odd number of shoes or an even number of shoes? even
- b. When you buy a dozen eggs are you getting an odd or even number of eggs? even
- c. Is there an odd or even number of letters in the alphabet? even
- d. Even numbers must end with a 2, 4, 6, 8, or \_\_\_\_\_. 0
- e. Odd numbers must end with a 1, 3, 5, 7, or \_\_\_\_\_. seven
- f. Which of these numbers is odd 22, 44, 66, or 77? 77
- g. Which of these numbers is even: 65, 83, 26, or 91? 26
- h. Subtract 9 from 18. Is the answer even or odd? odd
- i. Add 9 and 18 together. Is the answer even or odd? odd
- j. Which shape has an odd number of sides: triangle, square, rectangle, or octagon? triangle
- k. Does a car usually have an odd or even number of tires? even
- l. Jenna, Hannah, Jessica, Patty, and Lily eat lunch together at the same table. Are there an odd or even number of girls at the table? odd
- m. In a basketball game, the Lakers scored 101 points. The Bulls scored 104 points. Which team scored an odd number of points? Bulls



Name: \_\_\_\_\_

5.3b

## Odd or Even?

Color the boxes with even numbers blue.  
Color the boxes with odd numbers red.

0	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

Even numbers have a \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_ in the ones place.

Odd numbers have a \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_ in the ones place.

Circle the odd number in each group.

a. 56 30 45 98 62

b. 87 58 32 26 70

c. 76 94 12 99 4

d. 46 90 83 22 78

Circle the even number in each group.

a. 31 27 49 1 28

b. 90 43 85 69 3

c. 49 57 62 33 79

d. 91 77 35 73 4

Name: \_\_\_\_\_

ANSWER KEY

## Odd or Even?

Color the boxes with even numbers blue.  
Color the boxes with odd numbers red.

0	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

Even numbers have a 0, 2, 4, 6, or 8 in the ones place.

Odd numbers have a 1, 3, 5, 7, or 9 in the ones place.

Circle the odd number in each group.

- a. 56 30 45 98 62
- b. 87 58 32 26 70
- c. 76 94 12 99 4
- d. 46 90 83 22 78

Circle the even number in each group.

- a. 31 27 49 1 28
- b. 90 43 85 69 3
- c. 49 57 62 33 79
- d. 91 77 35 73 4