



VOLUME 1

COLOR BY CODING

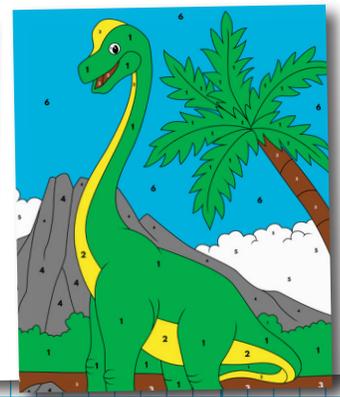
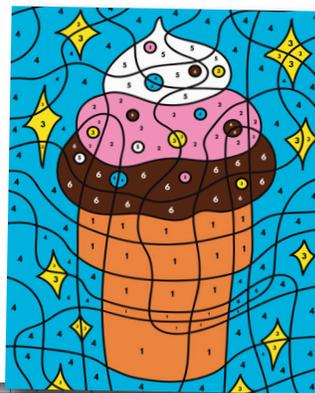
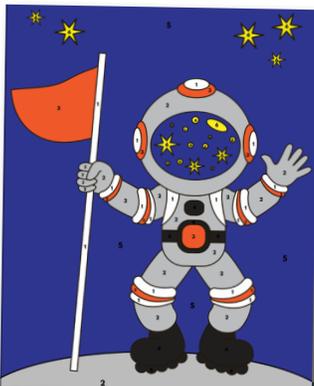
10 COLOR BY NUMBER ACTIVITIES
WITH BINARY BUILT IN

Left  Craft
Brain Brain

inspiring young engineers, one craft at a time

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DISCOVER. MAKE. PLAY. LEARN.

WHAT IS STEAM?

STEAM IS THE ABBREVIATION FOR SCIENCE, TECHNOLOGY, ENGINEERING, ART, & MATH.

It's an integrated approach to learning that encourages students to think more broadly about real-world problems.

WHY DO WE NEED THE A IN STEAM?

Because art makes STEM better! Here are some of the concrete benefits of incorporating the arts into science:

- It helps remove idea inhibition (there's no wrong answer in art!).
- It focuses on the process which helps drive innovation.
- It teaches the power of observation, of people and your surroundings.
- It helps hone spatial awareness and mathematical concepts like geometry.

SAFETY FIRST!

STEAM EXPLORERS PROJECTS ARE INTENDED TO BE PERFORMED UNDER ADULT SUPERVISION. Although Color by Coding is a low risk activity, we like to leave this here... Appropriate and reasonable caution is recommended when activities call for any items that could be of risk, including, but not limited to: sharp tools, hot glue, chemicals, batteries, scissors, and small items that could present a choking hazard. If you are unsure of the safety or age appropriateness of an activity, please consult your child's doctor.

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WHAT'S INSIDE?

INSIDE THIS COLOR BY CODING EBOOK IS:

- 10 different printable coloring pages (there's something for everyone, all year round!)
- ASCII binary and decimal decipher the color code pages
- ASCII code sheet
- Answer keys
- Teacher guide with additional learning recommendations
- What's the STEAM Behind It? background learning page

WHAT IS



STEAM Explorers is a monthly digital magazine plus kid-safe online project portal filled with STEAM. It's loaded with a monthly activity calendar, fun articles to read, jokes to tell, projects to do, printables to color, videos to watch, and more. Kids will enjoy making, playing, discovering, and learning their way through each month's issue!

YOU CAN LEARN MORE ABOUT STEAM EXPLORERS HERE:
LEFTBRAINCRAFTBRAIN.COM/EXPLORESTEAM

HOW TO JOIN THE STEAM EXPLORERS & LEFT BRAIN CRAFT BRAIN COMMUNITY

STEAM Explorers (and Left Brain Craft Brain, too) is a global community! Come get activity ideas, chat about STEAM, and share your pictures with us on both Facebook and Instagram. We love to see all of the ways you incorporate STEAM into your kids' worlds!

[LEFT BRAIN CRAFT BRAIN FACEBOOK PAGE](#)

[LEFT BRAIN CRAFT BRAIN ON INSTAGRAM](#)

TEACHER GUIDE

MATERIALS

- Paper
- Printer
- Printable coloring page, code sheets, and ASCII code guide
- Art supplies like crayons or markers in red, orange, yellow, green, blue, and brown.
- Rulers (optional, but can help kids find the codes easier)

PREPARATION

1. First decide whether to use the binary or decimal versions of the codes. The binary codes are significantly harder than the decimal codes. You can offer a choice to the children if desired.
2. Print out worksheets. Code pages can be printed on the back of the Christmas tree coloring page, but make sure that the ASCII codes list is on a separate sheet for ease of use.
3. Gather materials, 1 set per child or group into station quantities.

GOALS: Students will decipher a code using ASCII and then complete a coloring page.

EXPLAIN: Describe the project they will be completing. Show how the colors in the color by number page need to be deciphered by figuring out the letters in each color's name. Show them where to find the codes to decipher the color codes sheet on the ASCII code list.

DISCUSS: Talk to the students about the language of computers. Describe how all computer languages are built on the premise of 0 = OFF and 1 = ON. Switching lights on and off is a great demo to do while explaining. See What's the STEAM Behind It? section for more information.

EXTENSIONS (CLICK TO ACCESS):

- Want to add some learning to your holiday coloring? Grab another Christmas Color by Coding coloring page and other fun math-infused Christmas coloring pages in the [STEAM KIDS CHRISTMAS COLORING BOOK](#). Or try this [CANDY CANE CODING CRAFT](#).
- Play the [IF-THEN CODING GAME](#), another screen-free way to learn about code.
- Want a new Color by Coding coloring page every month? [JOIN STEAM EXPLORERS!](#) The coolest new adventure for kids is a monthly digital magazine plus project portal. It's filled with hands-on STEAM projects, printables, recipes, and more. It's perfect for classrooms, libraries, and home!

OTHER RESOURCES:

- **VIDEO:** [BINARY NUMBERS - MATH BITES WITH DANICA MCKELLAR](#)
- **BOOKS:** [CODING BOOKS FOR KIDS](#)

COLOR BY CODING

INSTRUCTIONS

Figure out the colors in this coloring page by finding the matching letters on the ASCII code sheet. Then color the picture with the numbers noted on the picture. There are two different code options, BINARY and DECIMAL. The binary coloring page is harder, so pick which one is best for you.

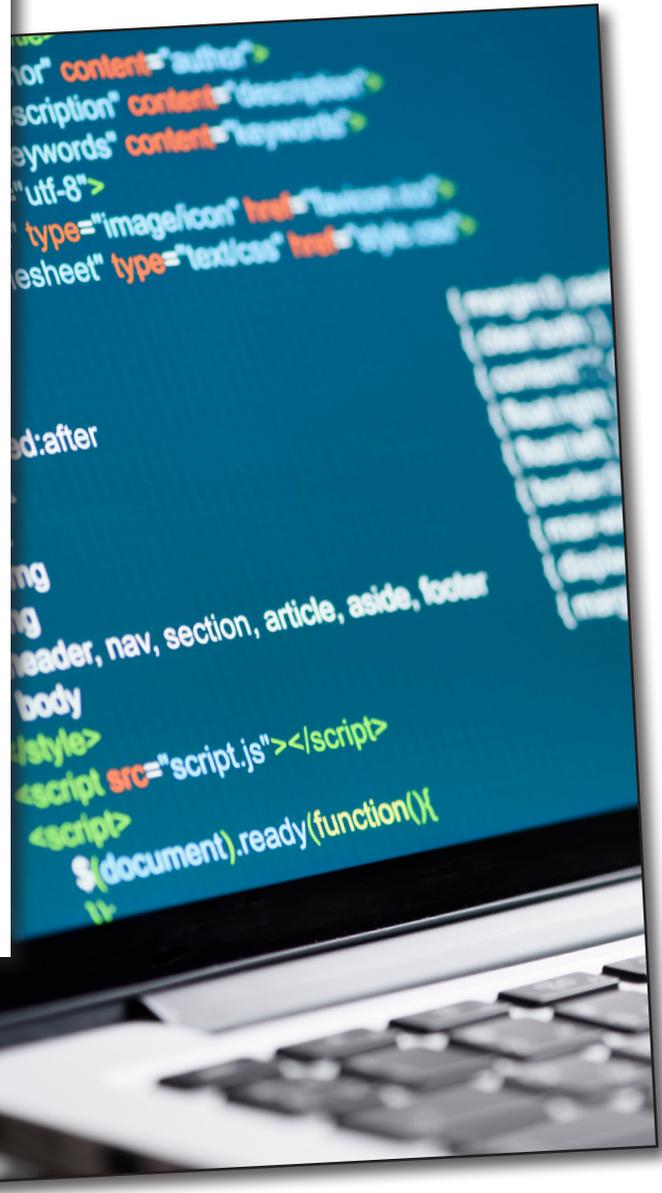
WHAT'S THE STEAM BEHIND IT?

There's a lot of talk today about coding being the language of the future. But what exactly is it and why is it important? Coding makes it possible for us to tell computers how to do stuff, like run our phone, play a video game, and make a website. Any app you use on your phone or computer is possible because of code.

WHAT IS ASCII?

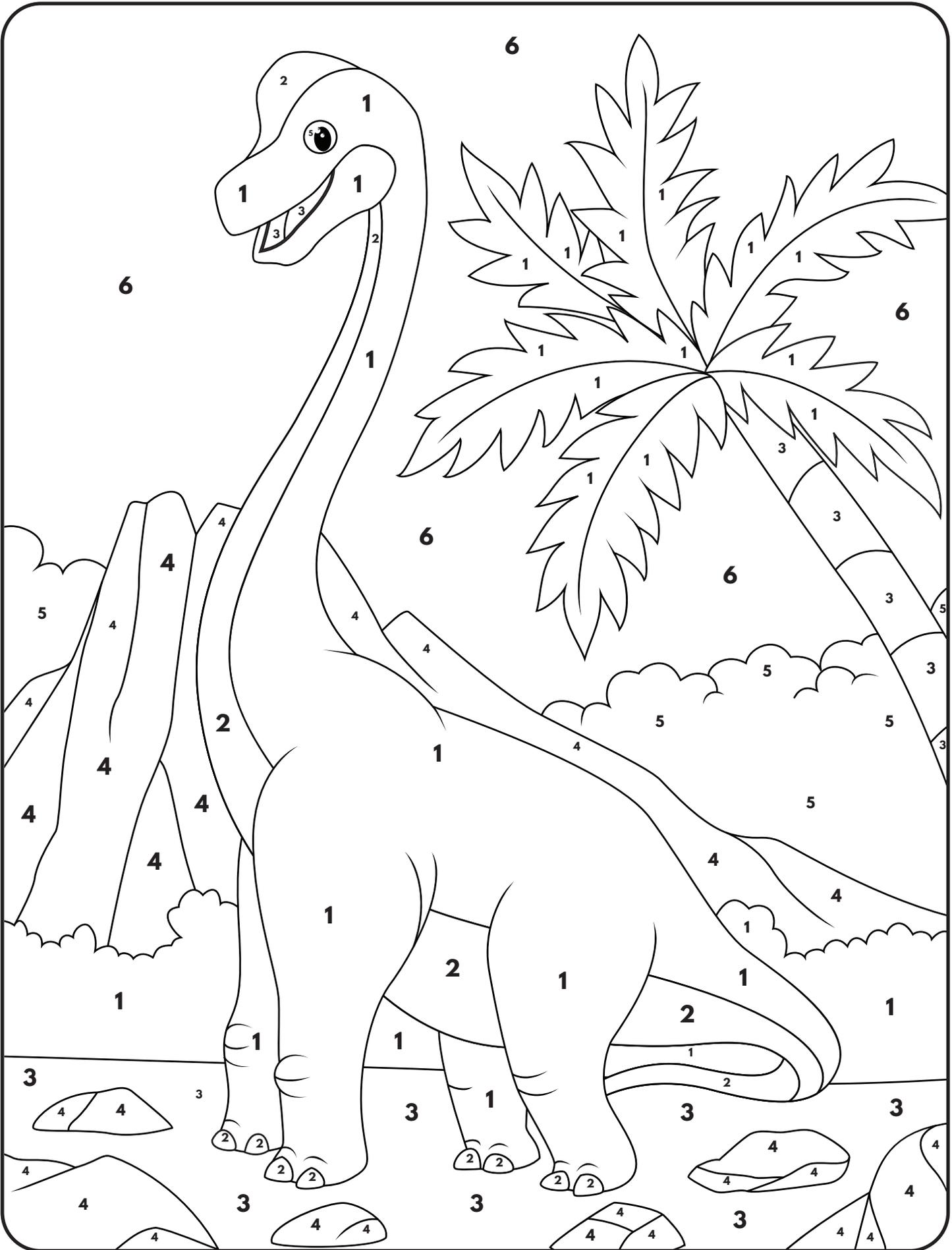
Computers speak the languages of zeroes and ones, essentially on and off signals to computer parts called transistors. These zeroes and ones have been translated into codes called the ASCII Binary code where every letter, number and character has an 8 digit combination of zeroes and ones. ASCII is the most common format for text files for computers and the internet. It stands for American Standard Code for Information Interchange and uses numbers to represent letters and special characters. The binary version uses only zeros and ones in an 8 bit (or digit) pattern.

But it would take too long to do anything if we had to code in just zeroes and ones, so computers use other languages now, that are all based upon binary.



ASCII

CHARACTER	BINARY	CHARACTER	DECIMAL
A	01000001	A	65
B	01000010	B	66
C	01000011	C	67
D	01000100	D	68
E	01000101	E	69
F	01000110	F	70
G	01000111	G	71
H	01001000	H	72
I	01001001	I	73
J	01001010	J	74
K	01001011	K	75
L	01001100	L	76
M	01001101	M	77
N	01001110	N	78
O	01001111	O	79
P	01010000	P	80
Q	01010001	Q	81
R	01010010	R	82
S	01010011	S	83
T	01010100	T	84
U	01010101	U	85
V	01010110	V	86
W	01010111	W	87
X	01011000	X	88
Y	01011001	Y	89
Z	01011010	Z	90



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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1

= _____
 01000111 01010010 01000101 01000101 01001110

2

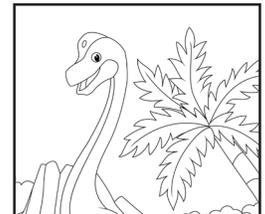
= _____
 01011001 01000101 01001100 01001100 01001111 01010111

3

= _____
 01000010 01010010 01001111 01010111 01001110

4

= _____
 01000111 01010010 01000101 01011001



5

= _____
 01010111 01001000 01001001 01010100 01000101

6

= _____
 01000010 01001100 01010101 01000101

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1

= _____
 71 82 69 69 78

2

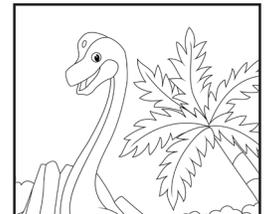
= _____
 89 69 76 76 79 87

3

= _____
 66 82 79 87 78

4

= _____
 71 82 69 89



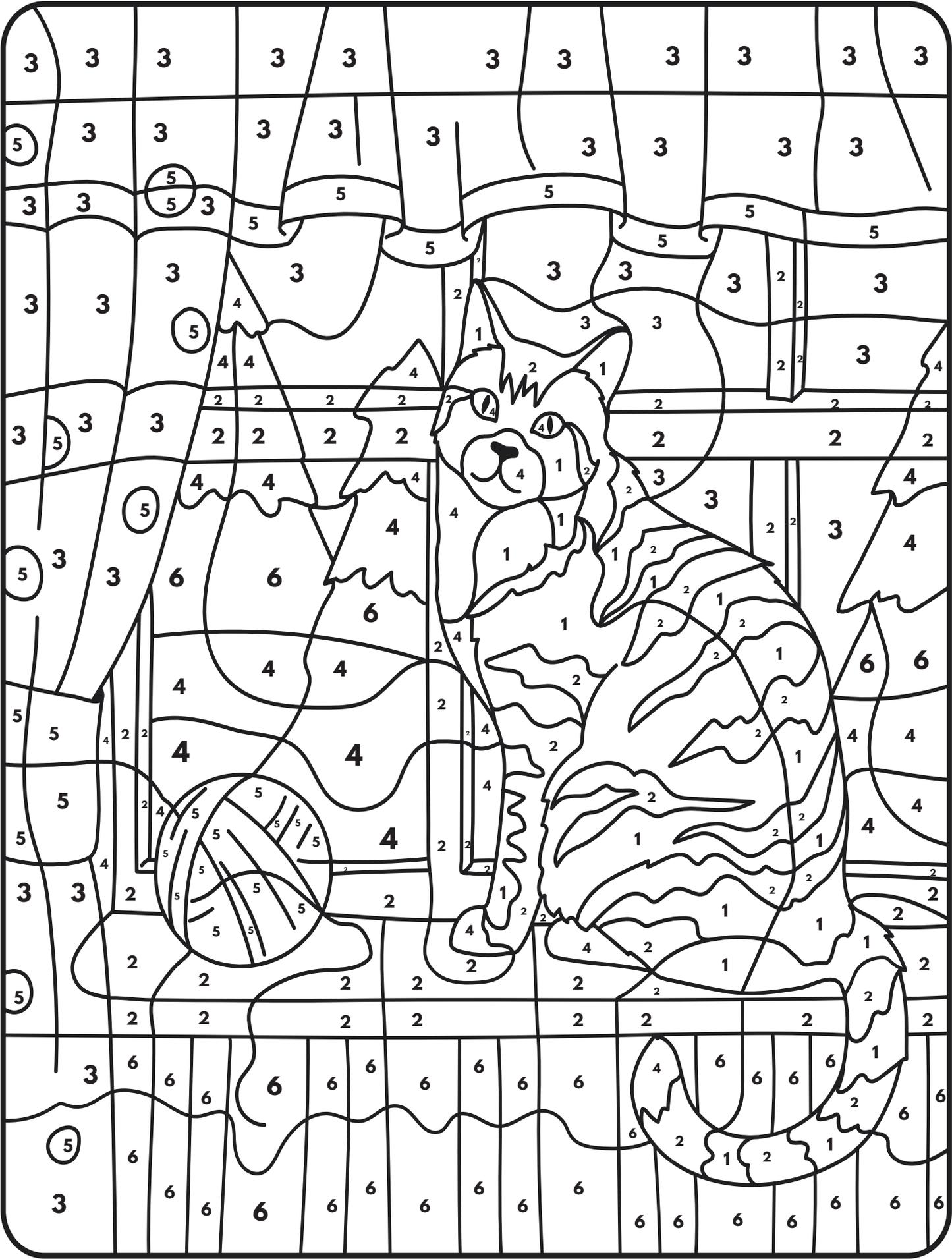
5

= _____
 87 72 73 84 69

6

= _____
 66 76 85 69

NAME: _____



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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=						
		01001111	01010010	01000001	01001110	01000111	01000101
2	=						
		01000010	01010010	01001111	01010111	01001110	
3	=						
		01000010	01001100	01010101	01000101		
4	=						
		01010111	01001000	01001001	01010100	01000101	
5	=						
		01010010	01000101	01000100			
6	=						
		01000111	01010010	01000101	01000101	01001110	

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1	=						
		79	82	65	78	71	69

2	=					
		66	82	79	87	78

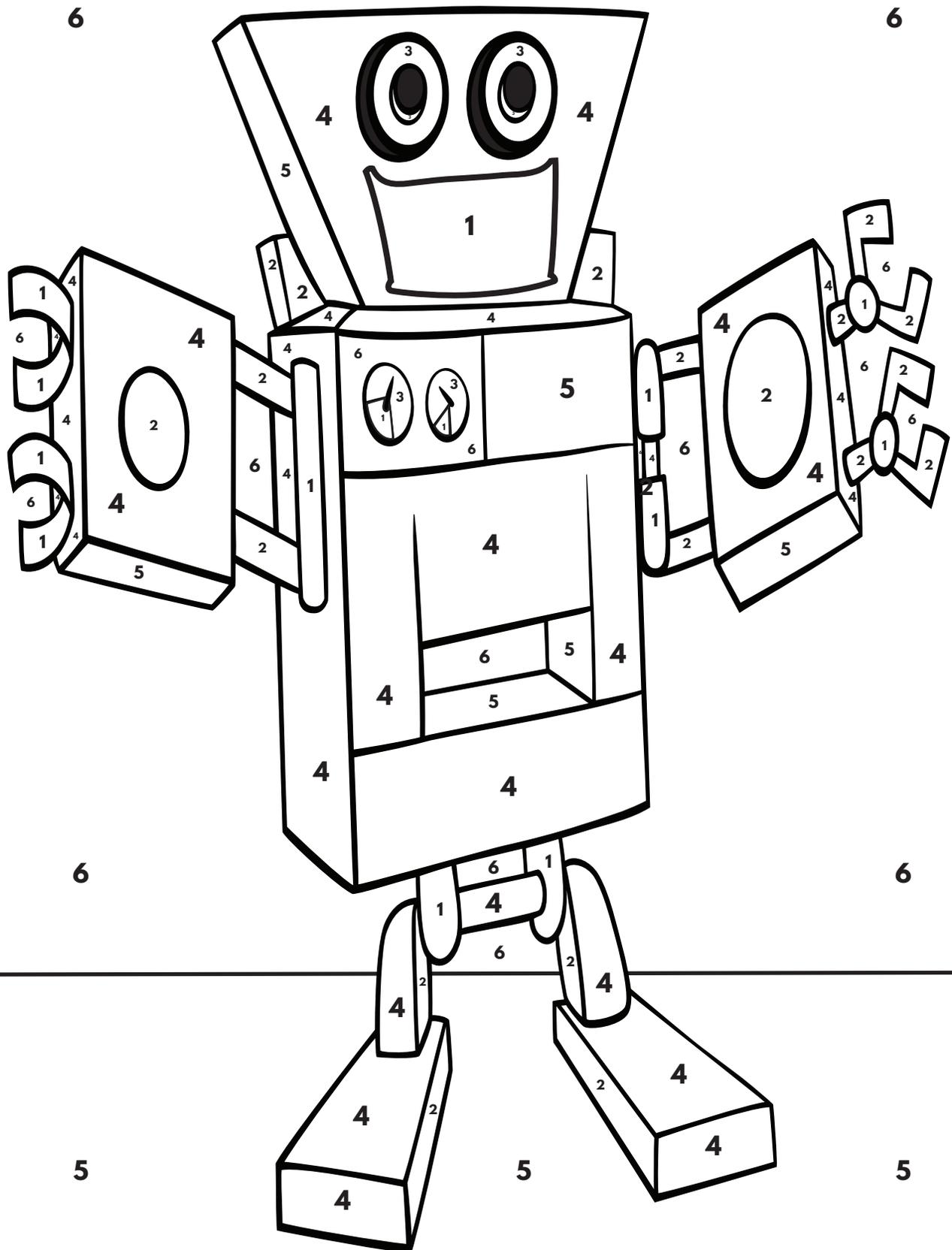
3	=				
		66	76	85	69



4	=					
		87	72	73	84	69

5	=			
		82	69	68

6	=					
		71	82	69	69	78



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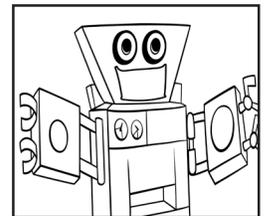
INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1

=

01010010 01000101 01000100



2

=

01000111 01010010 01000101 01000101 01001110

3

=

01010111 01001000 01001001 01010100 01000101

4

=

01010000 01010101 01010010 01010000 01001100 01000101

5

=

01000010 01001100 01010101 01000101

6

=

01000010 01010010 01001111 01010111 01001110 01001110

COLOR BY CODING

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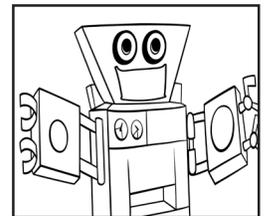
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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1

=
 82 **69** **68**



2

=
 71 **82** **69** **69** **78**

3

=
 87 **72** **73** **84** **69**

4

=
 80 **85** **82** **80** **76** **69**

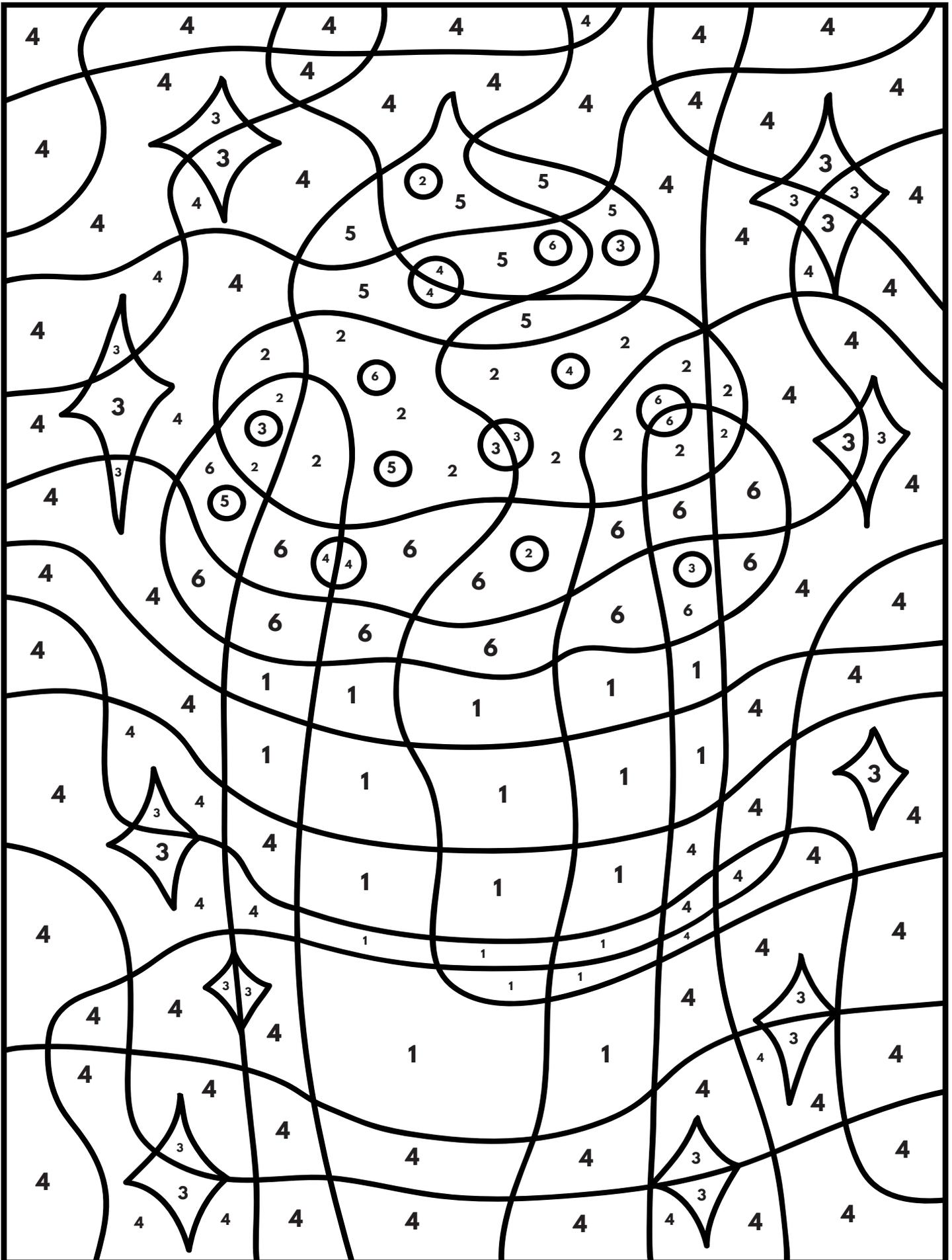
5

=
 66 **76** **85** **69**

6

=
 89 **69** **76** **76** **79** **87**

NAME: _____



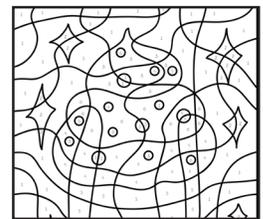
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Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.



1

=

 01010100 01000001 01001110

2

=

 01010000 01001001 01001110 01001011

3

=

 01011001 01000101 01001100 01001100 01001111 01010111

4

=

 01000010 01001100 01010101 01000101

5

=

 01010111 01001000 01001001 01010100 01000101

6

=

 01000010 01010010 01001111 01010111 01001110

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WHAT IS ASCII?

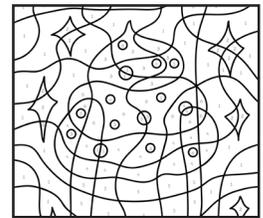
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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1

= _____
 84 **65** **78**



2

= _____
 80 **73** **78** **75**

3

= _____
 89 **69** **76** **76** **79** **87**

4

= _____
 66 **76** **85** **69**

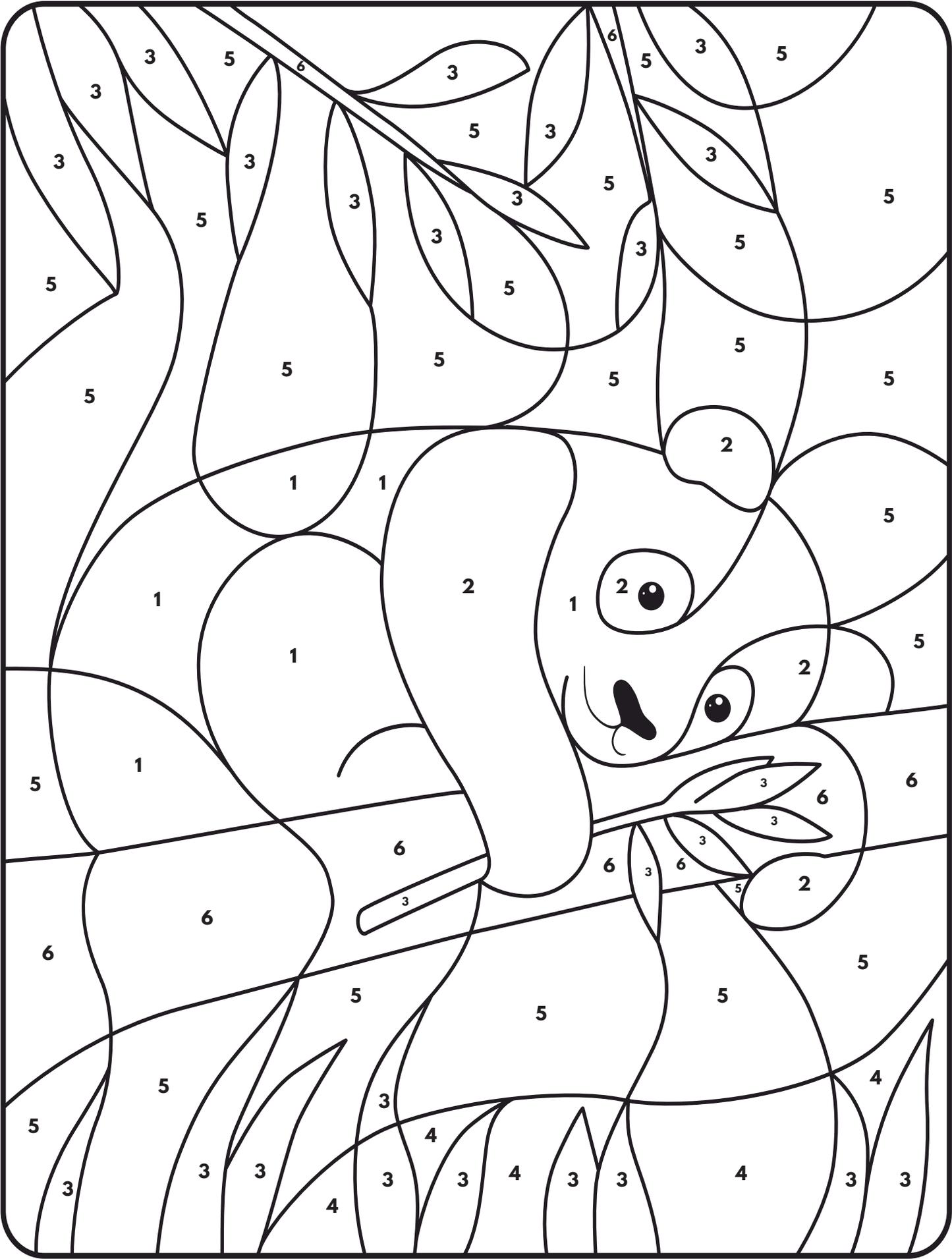
5

= _____
 87 **72** **73** **84** **69**

6

= _____
 66 **82** **79** **87** **78**

NAME: _____



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Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=					
		01010111	01001000	01001001	01010100	01000101

2	=					
		01000010	01001100	01000001	01000011	01001011

3	=					
		01000111	01010010	01000101	01000101	01001110

4	=			
		01010100	01000001	01001110

5	=				
		01000010	01001100	01010101	01000101

6	=					
		01000010	01010010	01001111	01010111	01001110



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1

=

87

72

73

84

69

2

=

66

76

65

67

75

3

=

71

82

69

69

78

4

=

84

65

78

5

=

66

76

85

69

6

=

66

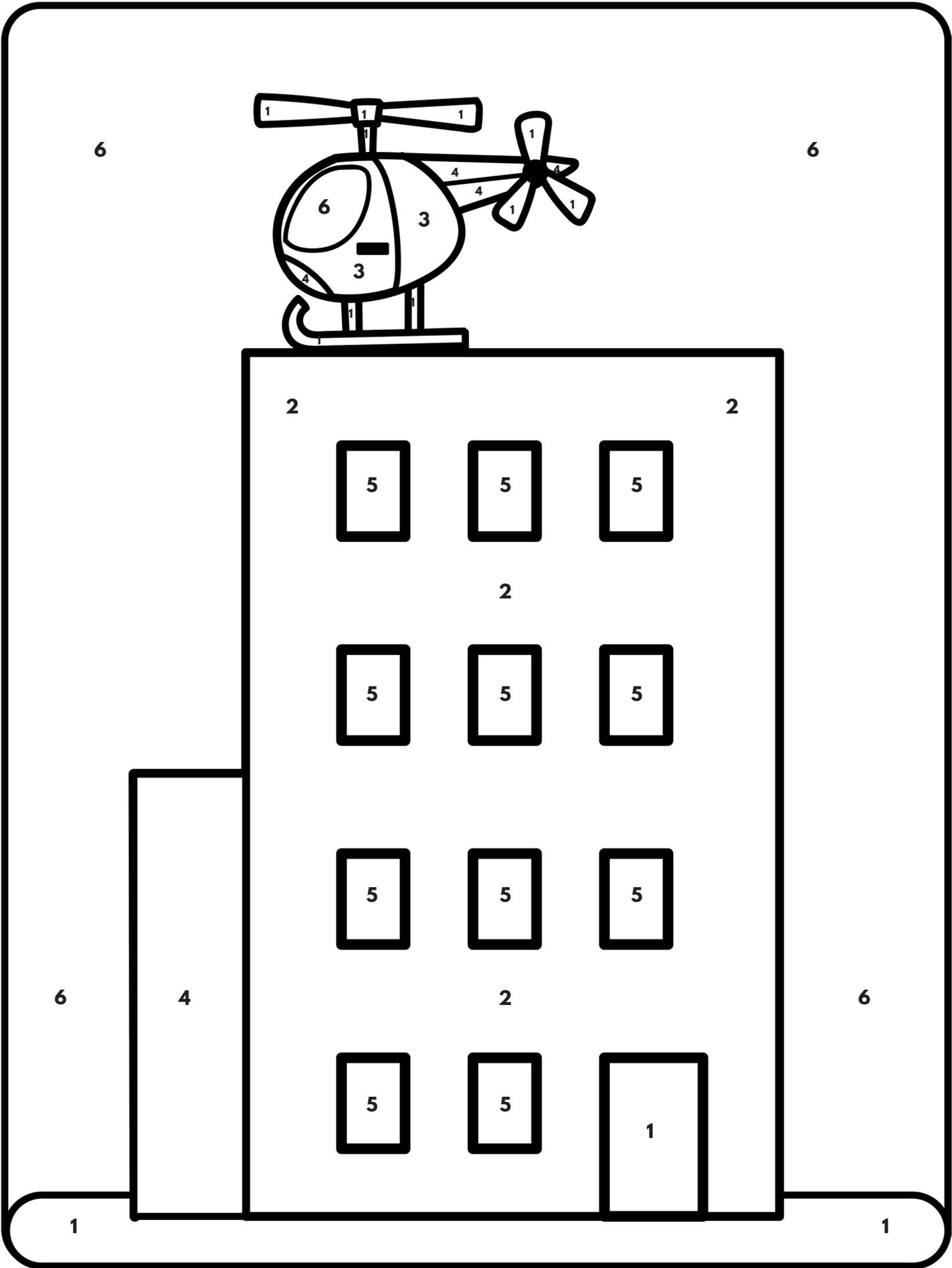
82

79

87

78





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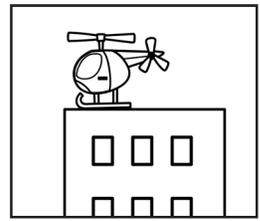
INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1

=

01000111 01010010 01000101 01011001



2

=

01010000 01010101 01010010 01010000 01001100 01000101

3

=

01001111 01010010 01000001 01001110 01000111 01000101

4

=

01000111 01010010 01000101 01000101 01001110

5

=

01010111 01001000 01001001 01010100 01000101

6

=

01000010 01001100 01010101 01000101

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1

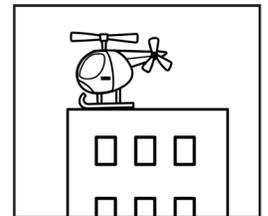
=

71

82

69

89



2

=

80

85

82

80

76

69

3

=

79

82

65

78

71

69

4

=

71

82

69

69

78

5

=

87

72

73

84

69

6

=

66

76

85

69



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1

=

01010111 01001000 01001001 01010100 01000101

2

=

01010000 01010101 01010010 01010000 01001100 01000101

3

=

01010000 01001001 01001110 01001011

4

=

01011001 01000101 01001100 01001100 01001111 01010111

5

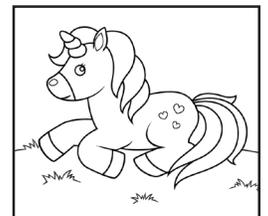
=

01000010 01001100 01010101 01000101

6

=

01000111 01010010 01000101 01000101 01001110



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WHAT IS ASCII?

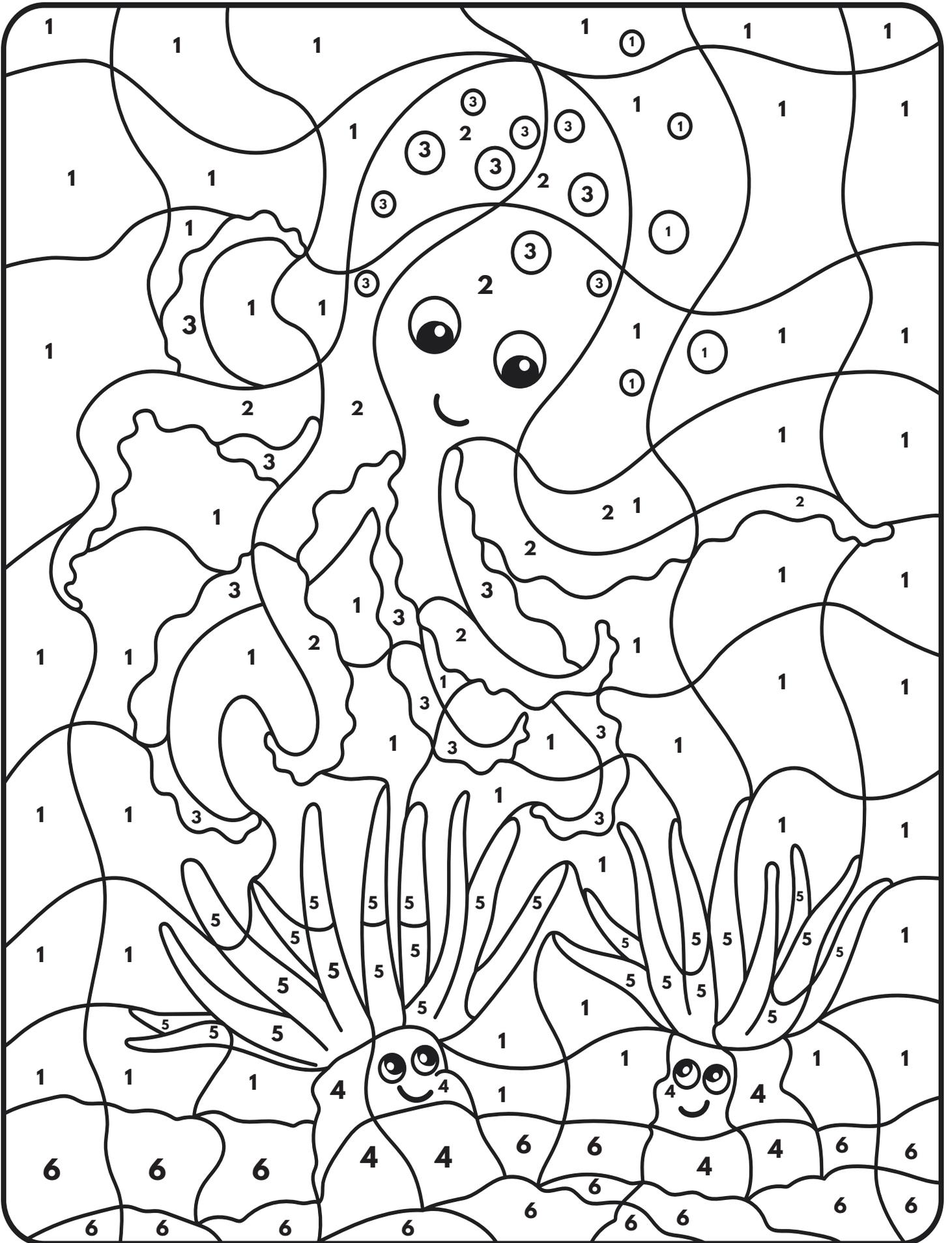
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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1	=					
		87	72	73	84	69
2	=					
		80	85	82	80	76 69
3	=					
		80	73	78	75	
4	=					
		89	69	76	76	79 87
5	=					
		66	76	85	69	
6	=					
		71	82	69	69	78

NAME: _____



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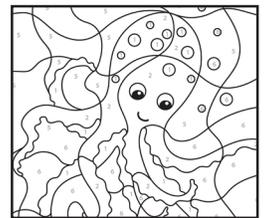
INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1

=

_____ _____ _____ _____
01000010 01001100 01010101 01000101



2

=

_____ _____ _____ _____ _____ _____
01010000 01010101 01010010 01010000 01001100 01000101

3

=

_____ _____ _____ _____
01010000 01001001 01001110 01001011

4

=

_____ _____ _____ _____ _____ _____
01001111 01010010 01000001 01001110 01000111 01000101

5

=

_____ _____ _____ _____ _____ _____
01011001 01000101 01001100 01001100 01001111 01010111

6

=

_____ _____ _____ _____ _____
01000111 01010010 01000101 01000101 01001110

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1

= _____
 66 **76** **85** **69**

2

= _____
 80 **85** **82** **80** **76** **69**

3

= _____
 80 **73** **78** **75**

4

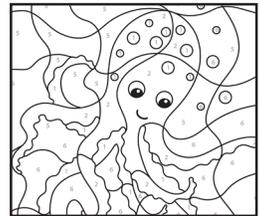
= _____
 79 **82** **65** **78** **71** **69**

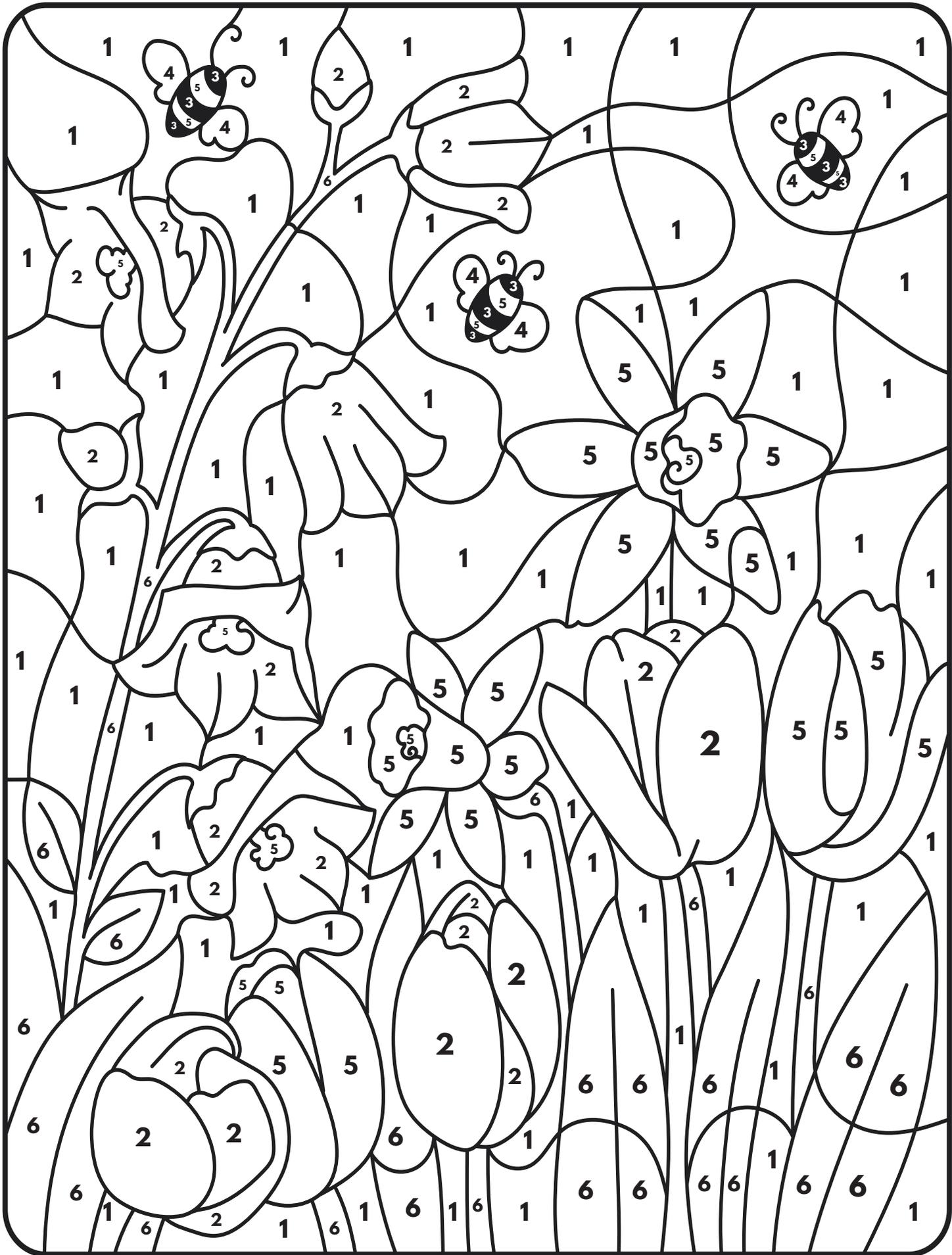
5

= _____
 89 **69** **76** **76** **79** **87**

6

= _____
 71 **82** **69** **69** **78**





COLOR BY CODING

WHAT IS ASCII?

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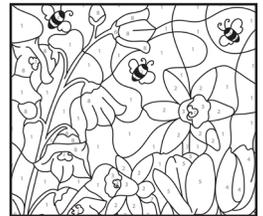
INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1

=

01000010 01001100 01010101 01000101



2

=

01010000 01010101 01010010 01010000 01001100 01000101

3

=

01000010 01001100 01000001 01000011 01001011

4

=

01010111 01001000 01001001 01010100 01000101

5

=

01011001 01000101 01001100 01001100 01001111 01010111

6

=

01000111 01010010 01000101 01000101 01001110

COLOR BY CODING

WHAT IS ASCII?

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1

= _____
 66 76 85 69



2

= _____
 80 85 82 80 76 69

3

= _____
 66 76 65 67 75

4

= _____
 87 72 73 84 69

5

= _____
 89 69 76 76 79 87

6

= _____
 71 82 69 69 78

COLOR BY CODING

WHAT IS ASCII?

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1

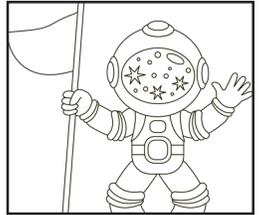
=

 01010111 01001000 01001001 01010100 01000101

2

=

 01000111 01010010 01000101 01011001



3

=

 01001111 01010010 01000001 01001110 01000111 01000101

4

=

 01000010 01001100 01000001 01000011 01001011

5

=

 01000010 01001100 01010101 01000101

6

=

 01011001 01000101 01001100 01001100 01001111 01010111

COLOR BY CODING

WHAT IS ASCII?

ASCII is the most common format for text files for computers and the internet. It stands for American Standard Code for Information Interchange and uses numbers to represent letters and special characters. The binary version uses only zeros and ones in a 8 bit (or digit) pattern. The decimal version uses two digit numbers.

INSTRUCTIONS

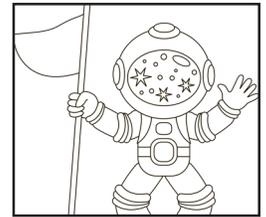
Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1

= _____
 87 **72** **73** **84** **69**

2

= _____
 71 **82** **69** **89**



3

= _____
 79 **82** **65** **78** **71** **69**

4

= _____
 66 **76** **65** **67** **75**

5

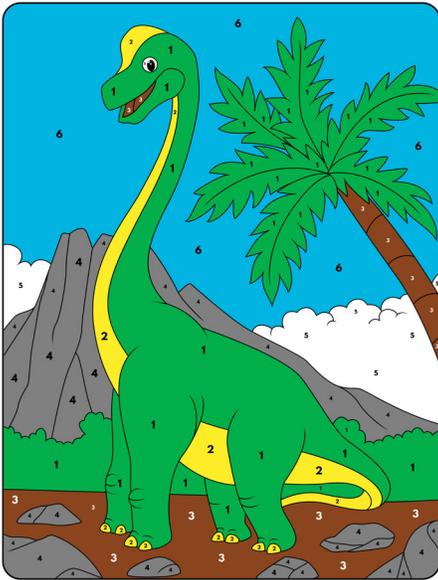
= _____
 66 **76** **85** **69**

6

= _____
 89 **69** **76** **76** **79** **87**

ANSWERS

DINOSAUR COLOR BY CODING



WHAT IS ASCII?

ASCII is the most common format for text files for computers and the internet. It stands for American Standard Code for Information Interchange and uses numbers to represent letters and special characters. The binary version uses only zeros and ones in a 8 bit (or digit) pattern. The decimal version uses two digit numbers.

INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=	G	R	E	E	N
		01000111	01010010	01000101	01000101	01001110
2	=	Y	E	L	L	O
		01011001	01000101	01001100	01001100	01001111
3	=	B	R	O	W	N
		01000010	01010010	01001111	01010111	01001110
4	=	G	R	E	Y	
		01000111	01010010	01000101	01011001	
5	=	W	H	I	T	E
		01010111	01001000	01001001	01010100	01001011
6	=	B	L	U	E	
		01000010	01001100	01010101	01001011	

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COLOR BY CODING

WHAT IS ASCII?

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1	=	G	R	E	E	N
		71	82	69	69	78
2	=	Y	E	L	L	O
		89	69	76	76	79
3	=	B	R	O	W	N
		66	82	79	87	78
4	=	G	R	E	Y	
		71	82	69	89	
5	=	W	H	I	T	E
		87	72	73	84	69
6	=	B	L	U	E	
		66	76	85	69	

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CAT COLOR BY CODING



WHAT IS ASCII?

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=	O	R	A	N	G	E
		01001111	01010010	01000001	01001110	01000111	01000101
2	=	B	R	O	W	N	
		01000010	01010010	01001111	01010111	01001110	
3	=	B	L	U	E		
		01000010	01001100	01010101	01000101		
4	=	W	H	I	T	E	
		01010111	01001000	01001001	01010100	01000101	
5	=	R	E	D			
		01010010	01000101	01000100			
6	=	G	R	E	E	N	
		01000111	01010010	01000101	01000101	01001110	

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COLOR BY CODING

WHAT IS ASCII?

ASCII is the most common format for text files for computers and the internet. It stands for American Standard Code for Information Interchange and uses numbers to represent letters and special characters. The binary version uses only zeros and ones in a 8 bit (or digit) pattern. The decimal version uses two digit numbers.

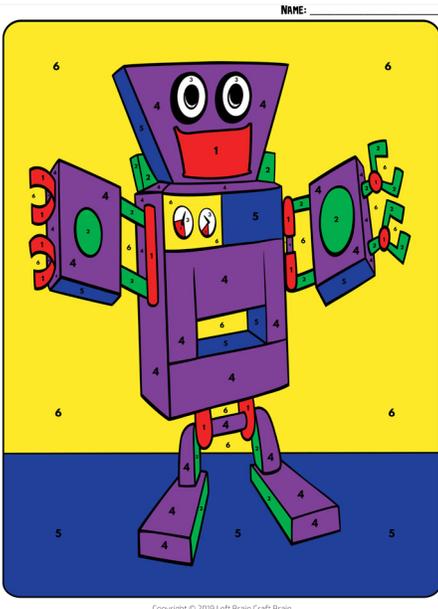
INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=	O	R	A	N	G	E
		79	82	65	78	71	69
2	=	B	R	O	W	N	
		66	82	79	87	78	
3	=	B	L	U	E		
		66	76	85	69		
4	=	W	H	I	T	E	
		87	72	73	84	69	
5	=	R	E	D			
		82	69	68			
6	=	G	R	E	E	N	
		71	82	69	69	78	

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ROBOT

COLOR BY CODING

NAME: _____

WHAT IS ASCII?
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INSTRUCTIONS
Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=	R	E	D			
		01000100	01000101	01000100			
2	=	G	R	E	E	N	
		01000111	01010010	01000101	01000101	01001110	
3	=	W	H	I	T	E	
		01010111	01001000	01001001	01010100	01000101	
4	=	P	U	R	P	L	E
		01010000	01010101	01010010	01010000	01001100	01000101
5	=	B	L	U	E		
		01000010	01001100	01010101	01000101		
6	=	Y	E	L	L	O	W
		01000010	01010010	01001111	01010111	01001110	01001110

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NAME: _____

ROBOT

COLOR BY CODING

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INSTRUCTIONS
Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=	R	E	D			
		82	69	68			
2	=	G	R	E	E	N	
		71	82	69	69	78	
3	=	W	H	I	T	E	
		87	72	73	84	69	
4	=	P	U	R	P	L	E
		80	85	82	80	76	69
5	=	B	L	U	E		
		66	76	85	69		
6	=	Y	E	L	L	O	W
		89	69	76	76	79	87

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ICE CREAM

COLOR BY CODING

NAME: _____

WHAT IS ASCII?
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INSTRUCTIONS
Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=	T	A	N			
		01010100	01000001	01001110			
2	=	P	I	N	K		
		01010000	01010101	01001110	01001011		
3	=	Y	E	L	L	O	W
		01011001	01000101	01001100	01001100	01001111	01010111
4	=	B	L	U	E		
		01000010	01001100	01010101	01000101		
5	=	W	H	I	T	E	
		01010111	01001000	01001001	01010100	01000101	
6	=	B	R	O	W	N	
		01000010	01010010	01001111	01010111	01001110	

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NAME: _____

ICE CREAM

COLOR BY CODING

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INSTRUCTIONS
Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1	=	T	A	N			
		84	65	78			
2	=	P	I	N	K		
		80	75	78	75		
3	=	Y	E	L	L	O	W
		89	69	76	76	79	87
4	=	B	L	U	E		
		66	76	85	69		
5	=	W	H	I	T	E	
		87	72	73	84	69	
6	=	B	R	O	W	N	
		66	82	79	87	78	

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PANDA

COLOR BY CODING

NAME: _____

WHAT IS ASCII?
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INSTRUCTIONS
Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=	W	H	I	T	E
		01010111	01001000	01001001	01010100	01000101
2	=	B	L	A	C	K
		01000010	01001100	01000001	01000011	01001011
3	=	G	R	E	E	N
		01000111	01010010	01000101	01000101	01001110
4	=	T	A	N		
		01010100	01000001	01001110		
5	=	B	L	U	E	
		01000010	01001100	01010101	01000101	
6	=	B	R	O	W	N
		01000010	01010010	01001111	01010111	01001110

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NAME: _____

PANDA

COLOR BY CODING

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INSTRUCTIONS
Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=	W	H	I	T	E
		87	72	73	84	69
2	=	B	L	A	C	K
		66	76	65	67	75
3	=	G	R	E	E	N
		71	82	69	69	78
4	=	T	A	N		
		84	65	78		
5	=	B	L	U	E	
		66	76	85	69	
6	=	B	R	O	W	N
		66	82	79	87	78

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HELICOPTER

NAME: _____

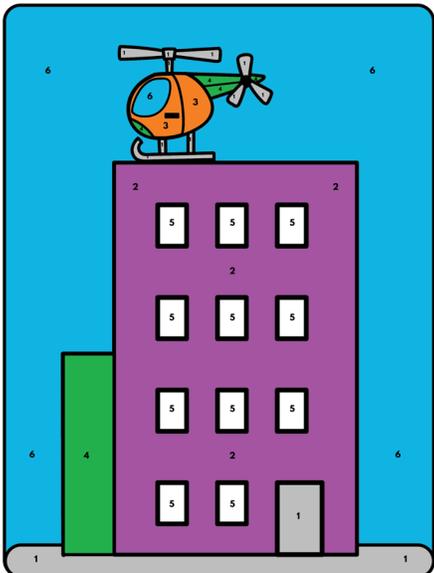
COLOR BY CODING

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.



1	=	G	R	E	Y		
		01000111	01010010	01000101	01011001		
2	=	P	U	R	P	L	E
		01010000	01010101	01010010	01010000	01001100	01000101
3	=	O	R	A	N	G	E
		01001111	01010010	01000001	01001110	01000111	01000101
4	=	G	R	E	E	N	
		01000111	01010010	01000101	01000101	01001110	
5	=	W	H	I	T	E	
		01010111	01001000	01001001	01010100	01000101	
6	=	B	L	U	E		
		01000010	01001100	01010101	01001101		

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HELICOPTER

NAME: _____

COLOR BY CODING

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1	=	G	R	E	Y		
		71	82	69	89		
2	=	P	U	R	P	L	E
		80	85	82	80	76	69
3	=	O	R	A	N	G	E
		79	82	65	78	71	69
4	=	G	R	E	E	N	
		71	82	69	69	78	
5	=	W	H	I	T	E	
		87	72	73	84	69	
6	=	B	L	U	E		
		66	76	85	69		

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OCTOPUS

NAME: _____

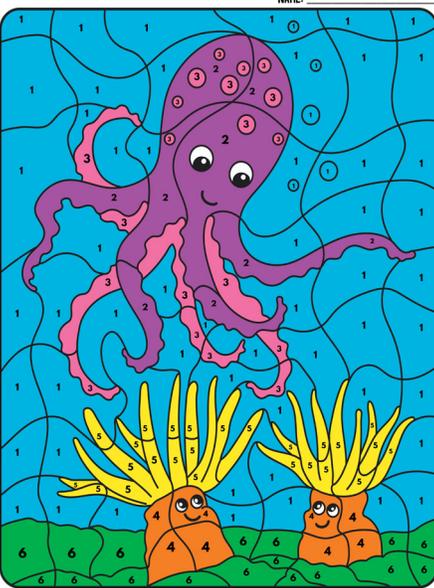
COLOR BY CODING

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.



1	=	B	L	U	E		
		01000010	01001100	01010101	01000101		
2	=	P	U	R	P	L	E
		01010000	01010101	01010010	01010000	01001100	01000101
3	=	P	I	N	K		
		01010000	01001001	01001110	01001011		
4	=	O	R	A	N	G	E
		01001111	01010010	01000001	01001110	01000111	01000101
5	=	Y	E	L	L	O	W
		01011001	01000101	01001100	01001100	01001111	01010111
6	=	G	R	E	E	N	
		01000111	01010010	01000101	01000101	01001110	

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OCTOPUS

NAME: _____

COLOR BY CODING

WHAT IS ASCII?

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1	=	B	L	U	E		
		66	76	85	69		
2	=	P	U	R	P	L	E
		80	85	82	80	76	69
3	=	P	I	N	K		
		80	73	78	75		
4	=	O	R	A	N	G	E
		79	82	65	78	71	69
5	=	Y	E	L	L	O	W
		89	69	76	76	79	87
6	=	G	R	E	E	N	
		71	82	69	69	78	

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FLOWERS & BEES

NAME: _____

COLOR BY CODING

WHAT IS ASCII?

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INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.



1	=	B	L	U	E		
		01000010	01001100	01010101	01000101		
2	=	P	U	R	P	L	E
		01010000	01010101	01010010	01010000	01001100	01000101
3	=	B	L	A	C	K	
		01000010	01001100	01000001	01000011	01010101	
4	=	W	H	I	T	E	
		01010111	01001000	01001001	01010100	01000101	
5	=	Y	E	L	L	O	W
		01011001	01000101	01001100	01001100	01001111	01010111
6	=	G	R	E	E	N	
		01000111	01010010	01000101	01000101	01001110	

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FLOWERS & BEES

NAME: _____

COLOR BY CODING

WHAT IS ASCII?

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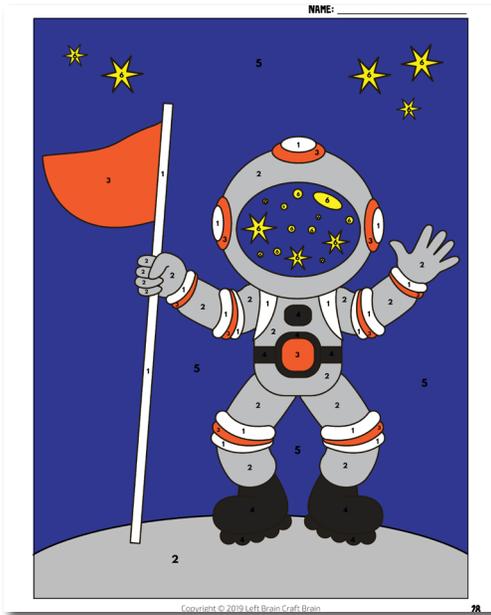
INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1	=	B	L	U	E		
		66	76	85	69		
2	=	P	U	R	P	L	E
		80	85	82	80	76	69
3	=	B	L	A	C	K	
		66	76	65	67	75	
4	=	W	H	I	T	E	
		87	72	73	84	69	
5	=	Y	E	L	L	O	W
		89	69	76	76	79	87
6	=	G	R	E	E	N	
		71	82	69	69	78	

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ASTRONAUT

COLOR BY CODING

WHAT IS ASCII?

ASCII is the most common format for text files for computers and the internet. It stands for American Standard Code for Information Interchange and uses numbers to represent letters and special characters. The binary version uses only zeros and ones in a 8 bit (or digit) pattern. The decimal version uses two digit numbers.

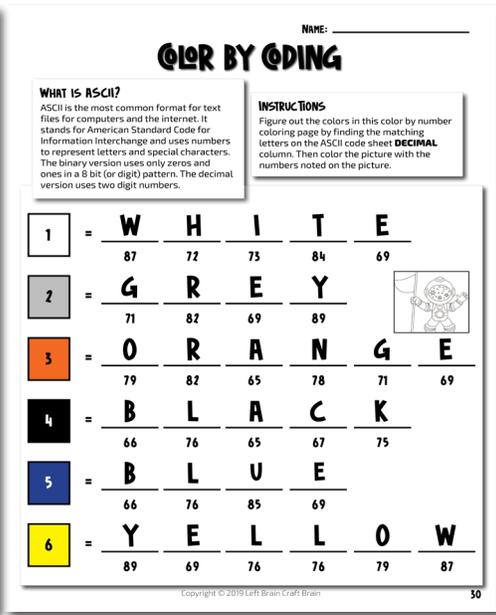
INSTRUCTIONS

Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=	W	H	I	T	E
		01010111	01001000	01001001	01010100	01000101
2	=	G	R	E	Y	
		01000111	01010010	01000101	01011001	
3	=	O	R	A	N	G
		01001111	01010010	01000001	01001110	01000111
4	=	B	L	A	C	K
		01000010	01001100	01000001	01000011	01001011
5	=	B	L	U	E	
		01000010	01001100	01010101	01000101	
6	=	Y	E	L	L	O
		01011001	01000101	01001100	01001100	01001111

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ASTRONAUT

COLOR BY CODING

WHAT IS ASCII?

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INSTRUCTIONS

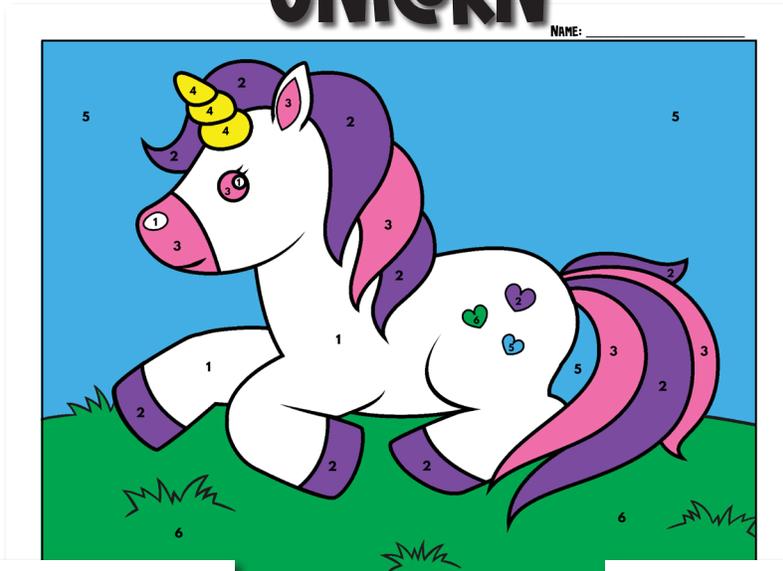
Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1	=	W	H	I	T	E
		87	72	73	84	69
2	=	G	R	E	Y	
		71	82	69	89	
3	=	O	R	A	N	G
		79	82	65	78	71
4	=	B	L	A	C	K
		66	76	65	67	75
5	=	B	L	U	E	
		66	76	85	69	
6	=	Y	E	L	L	O
		89	69	76	76	79

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UNICORN



NAME: _____

COLOR BY CODING

WHAT IS ASCII?
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INSTRUCTIONS
Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **BINARY** column. Then color the picture with the numbers noted on the picture.

1	=	W	H	I	T	E
		01010111	01001000	01001001	01010100	01000101
2	=	P	U	R	P	L
		01010000	01010101	01010010	01010000	01001100
3	=	P	I	N	K	
		01010000	01001001	01001110	01001011	
4	=	Y	E	L	L	O
		01011001	01000101	01001100	01001100	01001111
5	=	B	L	U	E	
		01000010	01001100	01010101	01000101	
6	=	G	R	E	E	N
		01000111	01010101	01000101	01000101	01001110

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NAME: _____

COLOR BY CODING

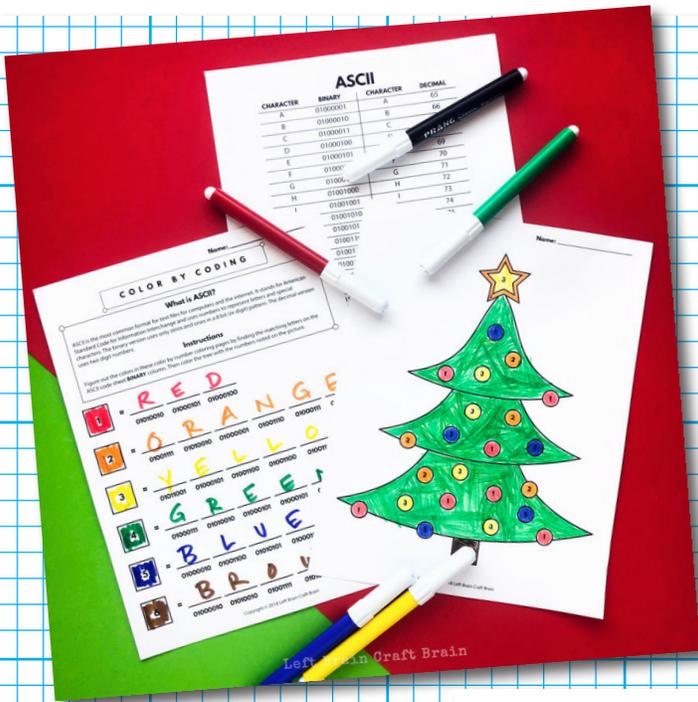
WHAT IS ASCII?
ASCII is the most common format for text files for computers and the internet. It stands for American Standard Code for Information Interchange and uses numbers to represent letters and special characters. The binary version uses only zeros and ones in a 8 bit (or digit) pattern. The decimal version uses two digit numbers.

INSTRUCTIONS
Figure out the colors in this color by number coloring page by finding the matching letters on the ASCII code sheet **DECIMAL** column. Then color the picture with the numbers noted on the picture.

1	=	W	H	I	T	E
		01010111	01001000	01001001	01010100	01000101
2	=	P	U	R	P	L
		01010000	01010101	01010010	01010000	01001100
3	=	P	I	N	K	
		01010000	01001001	01001110	01001011	
4	=	Y	E	L	L	O
		01011001	01000101	01001100	01001100	01001111
5	=	B	L	U	E	
		01000010	01001100	01010101	01000101	
6	=	G	R	E	E	N
		01000111	01010101	01000101	01000101	01001110

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BE SURE TO CHECK OUT OUR HOLIDAY COLOR BY CODING COLORING PAGES TOO!



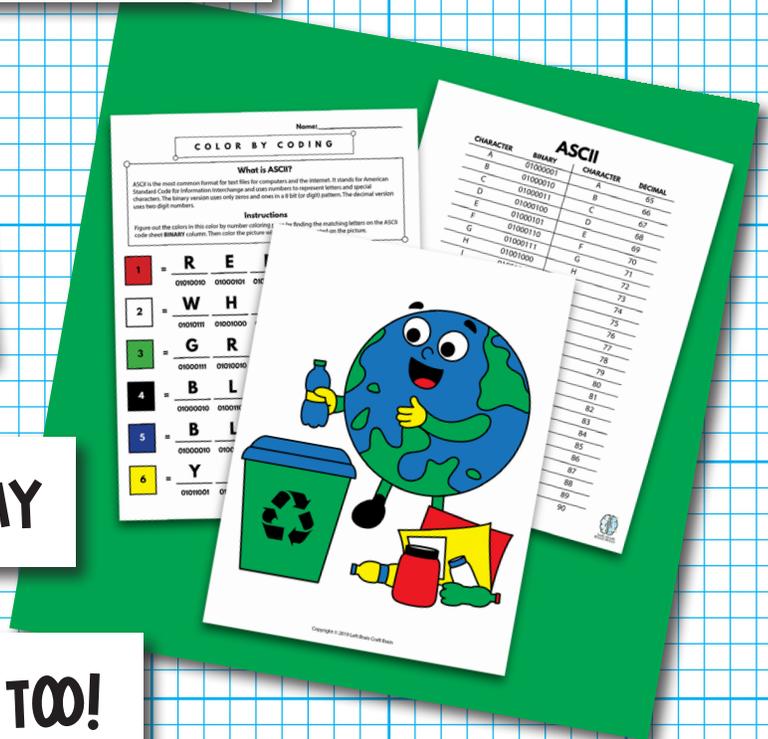
CHRISTMAS



THANKSGIVING



EARTH DAY



PLUS MORE COMING SOON, TOO!
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