

CONTENTS

Pages 3-5: Supplies and Instructions

Page 6: Student recording booklet covers

Pages 7-30: SNOWBALL SPLAT:

CHOOSE FROM THE FOLLOWING SKILLS:

- **Names for a Number (All Grades)**
- **Comparing Numbers (Lower Grades)**
- **Basic Addition Facts (Lower Grades)**
- **Two-Digit Addition (2nd Grade and up)**
- **Basic Subtraction Facts (Lower Grades)**
- **Two-Digit Subtraction (2nd Grade and up)**
- **Basic Multiplication Facts (Upper Grades)**
- **Two-Digit Multiplication (Upper Grades)**

Pages 31-39: SOARING SNOWBALLS:

- **Measurement (Lower Grades)**
- **Measurement & Data Analysis (Upper Grades)**

Pages 40-47: SNOWGLOBE SWISH:

- **Tally & Graph (Lower Grades)**
- **Place Value/Expanded Form (Upper Grades)**

Pages 48-53: SNOWMAN SMASH:

- **Place Value (Lower Grades)**
- **Decimals (Upper Grades)**

Pages 54-58: BONUS: SNOWBALL STRUCTURES

- **2D shapes**
- **3D solids**

Snowball Slingshot Math Stations

The following Snowball Slingshot math activities are perfect for winter or Winter Parties! Each activity or game is designed to be used with **mini marshmallows or white pom pom balls**. Students will also need to construct a simple slingshot device to launch their marshmallows and will need:

- 1 plastic 3-oz mini cup
- 1 7-inch balloon
- scissors

Instructions for creating the snowball slingshot are found on the following page.

Each station should be modeled and discussed with the teacher before being completed by students. 4-6 students can work at one station at a time, and each station should take students about 15-20 minutes to complete. Each station has a card tent with instructions as well as student recording sheets.

STATION MATERIALS

SNOWBALL SPLAT	<ul style="list-style-type: none">• mini marshmallow and slingshot• snowball splat number mat taped together
SOARING SNOWBALLS	<ul style="list-style-type: none">• mini marshmallow and slingshot• "Start Here" card• measurement cards
SNOW GLOBE SWISH	<ul style="list-style-type: none">• mini marshmallow and slingshot• 6 large cups with paper snow globes attached
SNOWMAN SMASH	<ul style="list-style-type: none">• mini marshmallow and slingshot• 12-15 mini cups with place value blocks attached
OPTIONAL BONUS: SNOWBALL STRUCTURES	<ul style="list-style-type: none">• 24 mini marshmallows per student (you can also use white playdough)• 24 toothpicks

Marshmallow Slingshots

1) Cut the bottom off a plastic 3-oz mini cup.



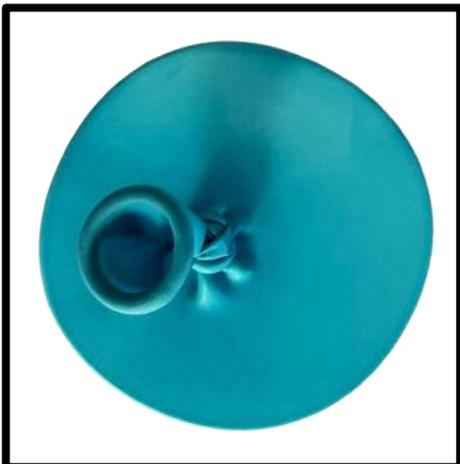
2) Tie the balloon.



3) Snip the end off the other side of the balloon.



4) Stretch the balloon opening around the larger rimmed end of the cup.



Place a marshmallow inside the opening of the cup. Pull the knot on the balloon back to launch the marshmallow.

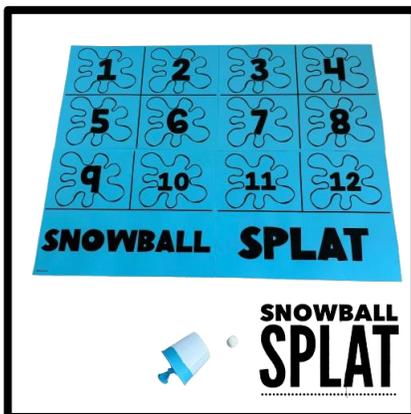


SNOWBALL SLINGSHOT STATIONS

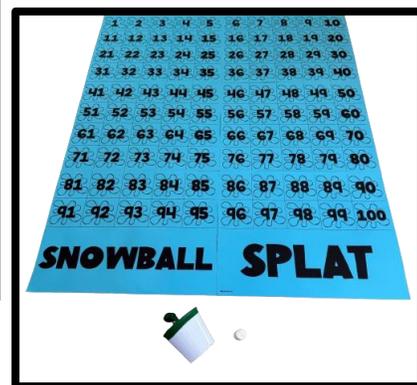
Tape rulers together.



Tape number mats together and place against a wall.



2 MAT OPTIONS



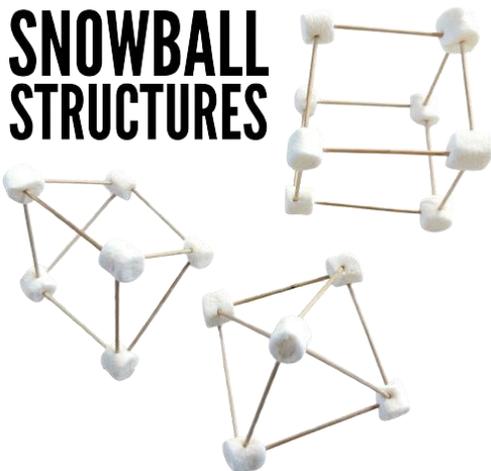
Arrange cups against a wall.



Stack cups in snowman shapes.

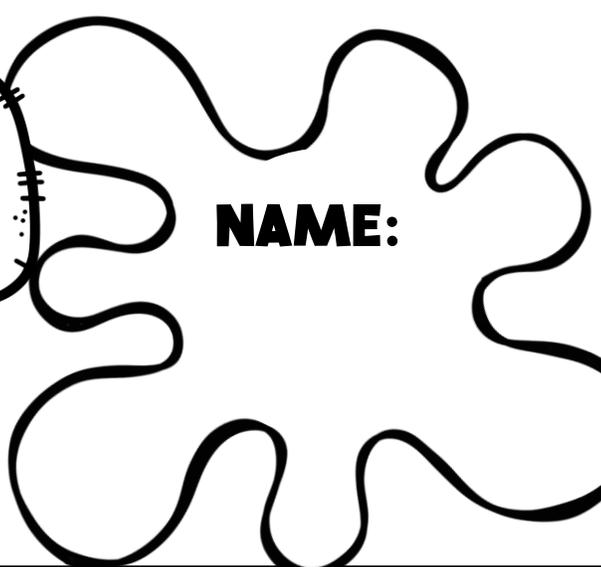
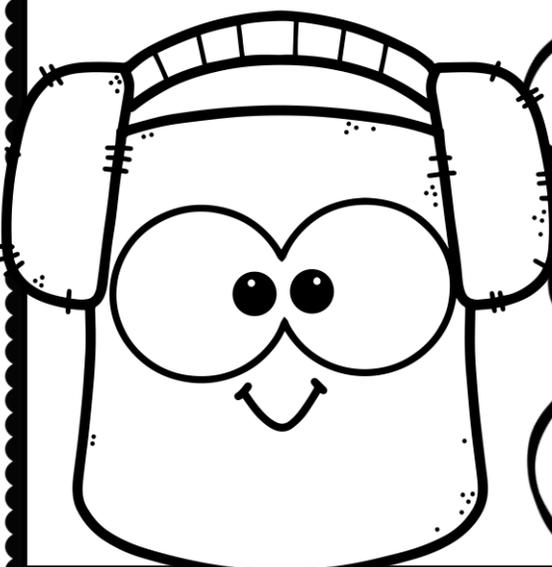


SNOWBALL STRUCTURES

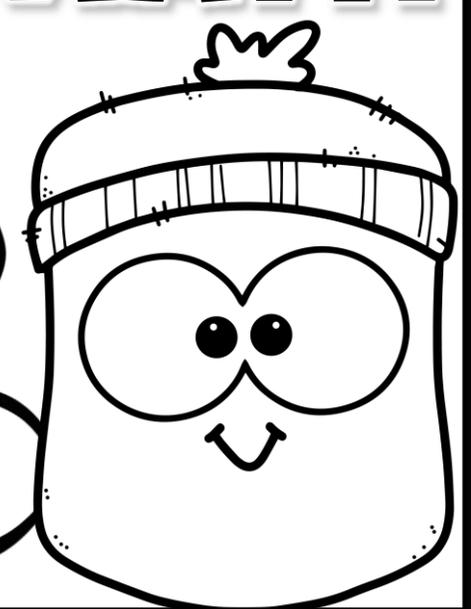


S N O W B A L L

SLINGSHOT MATH

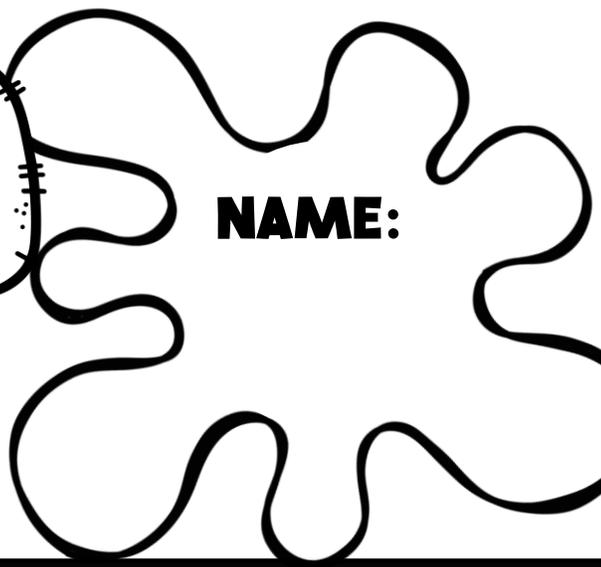
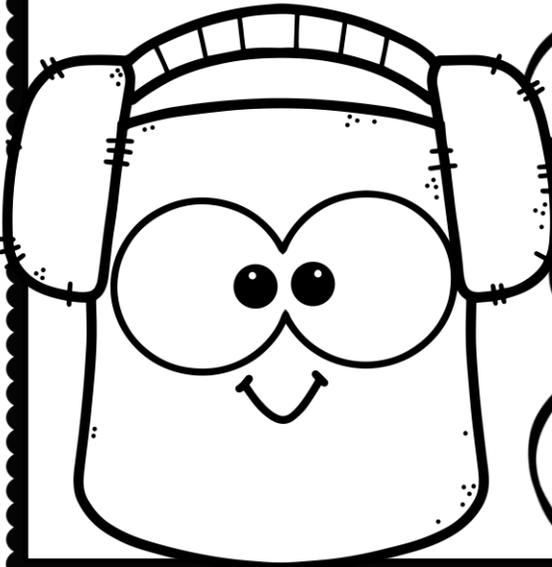


NAME:

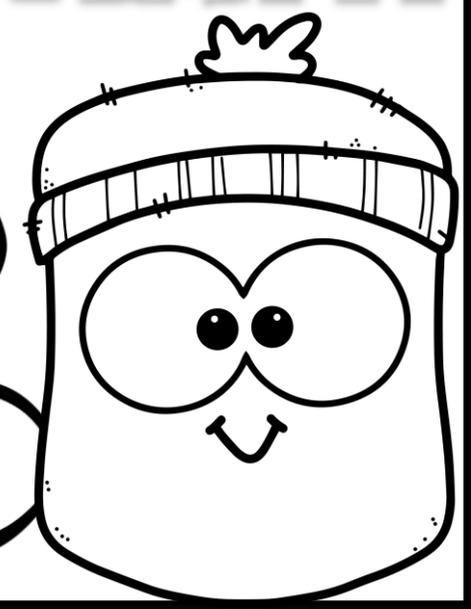


S N O W B A L L

SLINGSHOT MATH



NAME:



SNOWBALL SPLAT

There are several different variations of this activity, so it is easy to differentiate for multiple ages and abilities. Two different number mats are provided:

Pages 13-16: Numbers 1-12
Pages 17-22: Numbers 1-100

After taping a number mat together, place it on the floor against a wall.

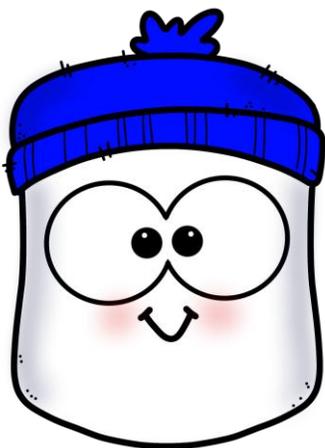
VARIATIONS:

- Names for a Number**
- Comparing Numbers**
- Addition Basic Facts**
- Double-Digit Addition**
- Subtraction Basic Facts**
- Double-Digit Subtraction**
- Multiplication Basic Facts**
- Double-Digit Multiplication**

SNOWBALL SPLAT

NAMES FOR A NUMBER

- 1) Launch your marshmallow onto the Snowball Splat mat.
- 2) Write down the number that your marshmallow lands on.
- 3) Write 3 different "names" for that number. You can draw pictures, make tally marks, write words, or write number models/equations.



NAMES FOR
THE NUMBER



twelve

~~||||~~ ~~||||~~ ||

$10 + 2$

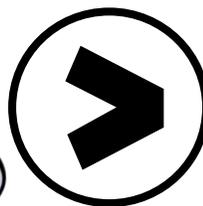
SNOWBALL SPLAT

COMPARING NUMBERS

- 1) Launch your marshmallow onto the Snowball Splat mat.
- 2) Write down the number that your marshmallow lands on.
- 3) Launch your marshmallow again and write down the second number.
- 4) Write the symbol in the middle to compare the values of the numbers: $<$ (less than), $>$ (greater than), or $=$ (equal).



LAUNCH 1



LAUNCH 2

SNOWBALL SPLAT

ADDITION

- 1) Launch your marshmallow onto the Snowball Splat mat.
- 2) Write down the number that your marshmallow lands on.
- 3) Launch your marshmallow onto the mat again.
- 4) Write down the second number.
- 5) Add the numbers together and write the sum.



$$4 + 3 = 7$$

LAUNCH 1

LAUNCH 2

SNOWBALL SPLAT

SUBTRACTION

- 1) Launch your marshmallow onto the Snowball Splat mat.
- 2) Repeat to launch your marshmallow one more time.
- 3) Write down the larger number first and the smaller number second.
- 4) Subtract the numbers and write the difference.



$$9 - 5 = 4$$

LAUNCH 1

LAUNCH 2

SNOWBALL SPLAT

MULTIPLICATION

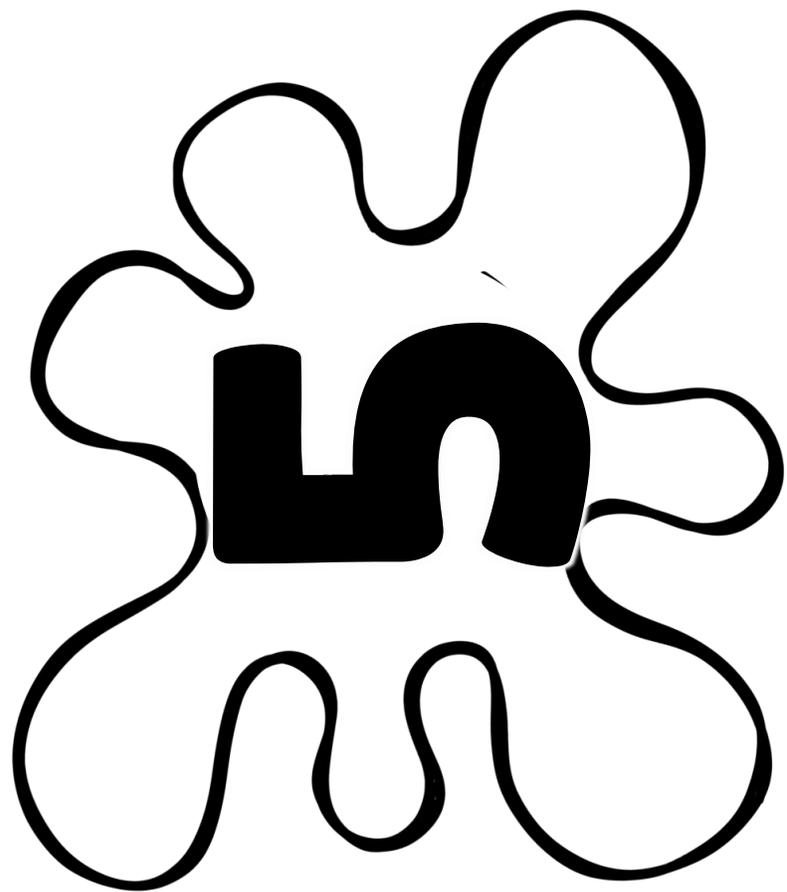
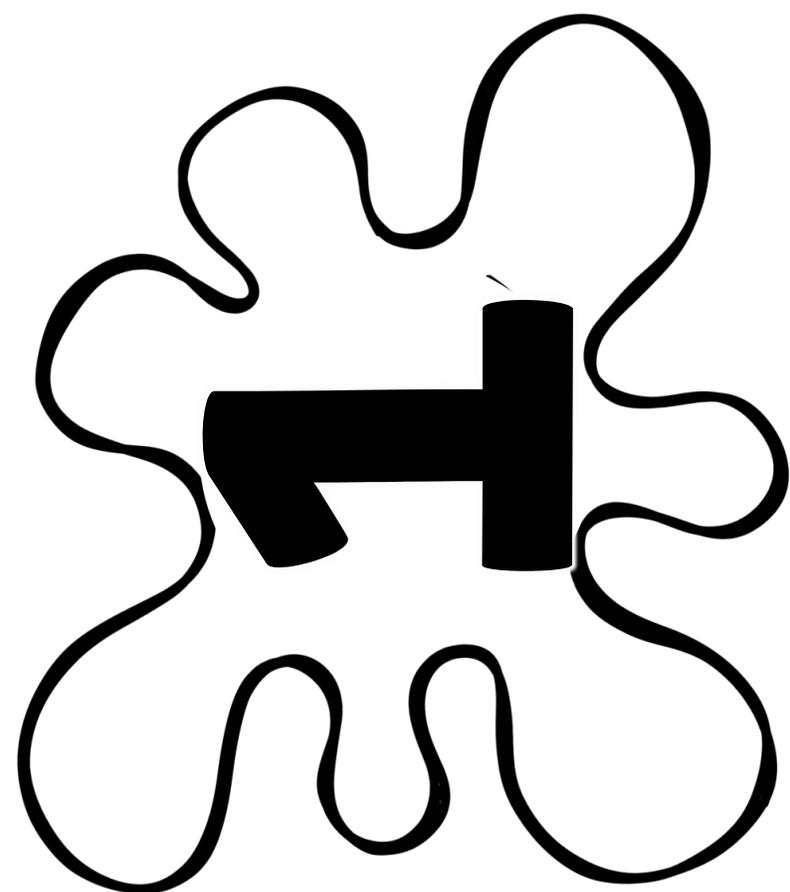
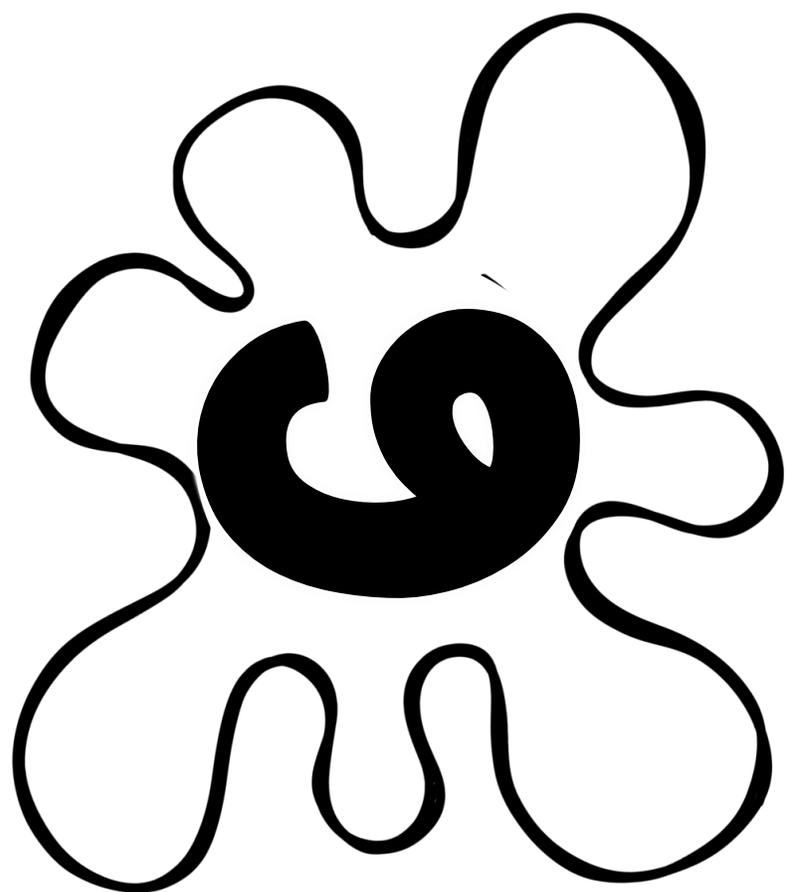
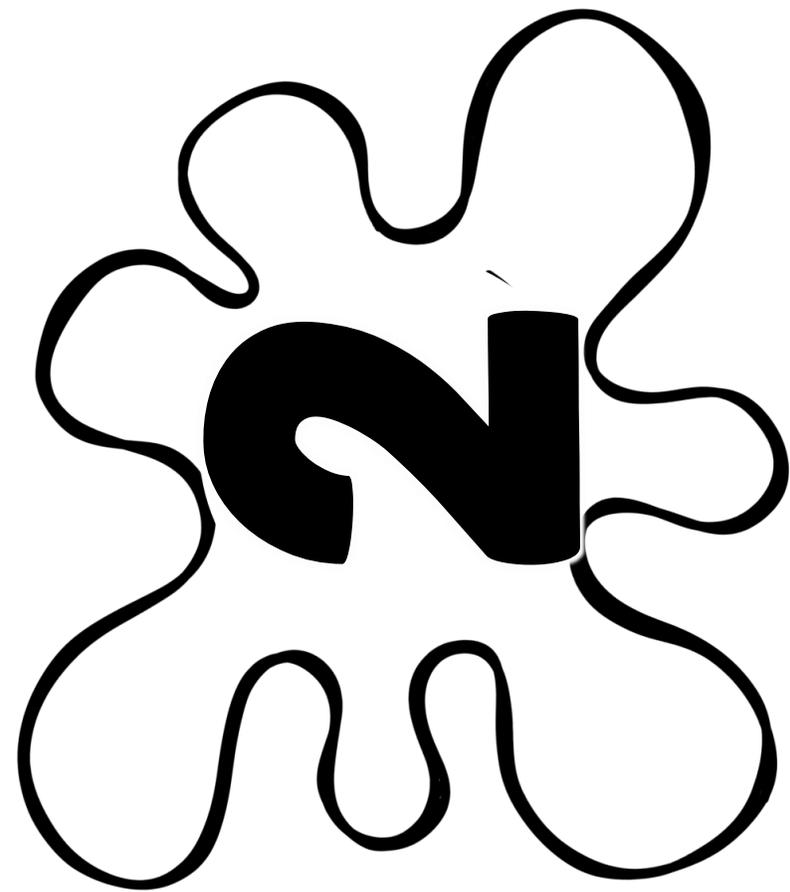
- 1) Launch your marshmallow onto the Snowball Splat mat.
- 2) Write down the number that your marshmallow lands on.
- 3) Launch your marshmallow onto the mat again.
- 4) Write down the second number.
- 5) Multiply the numbers together and write the product.

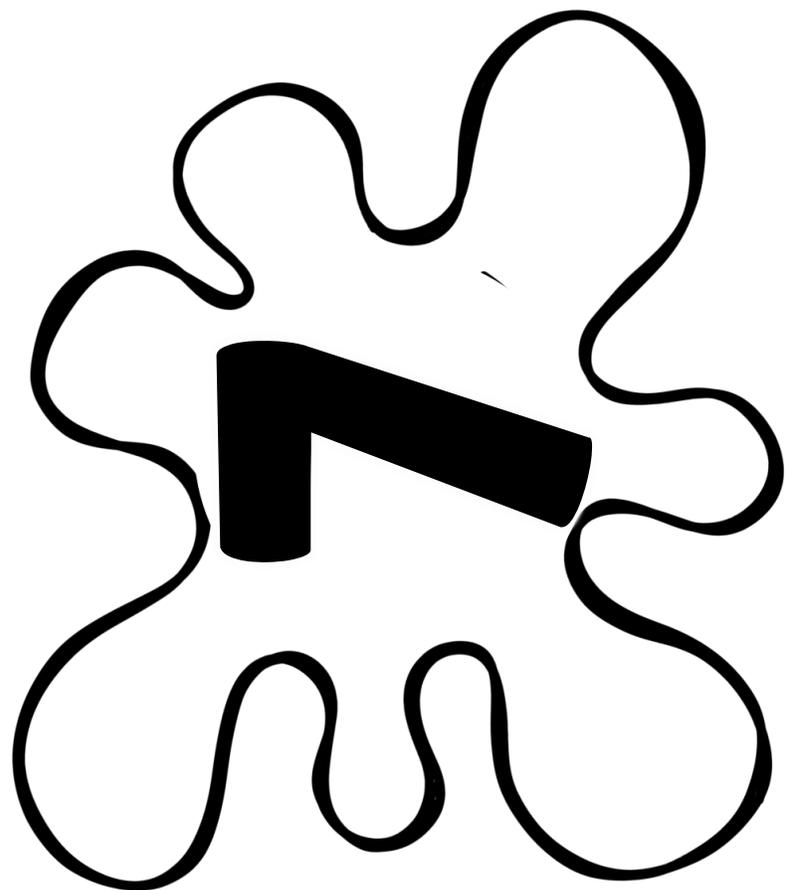
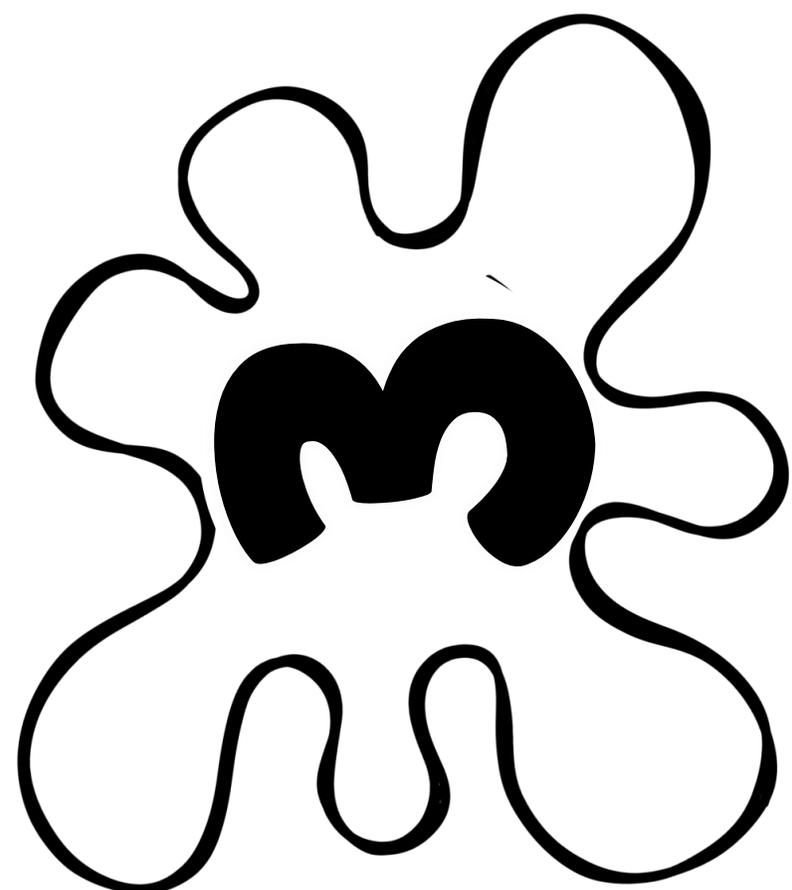
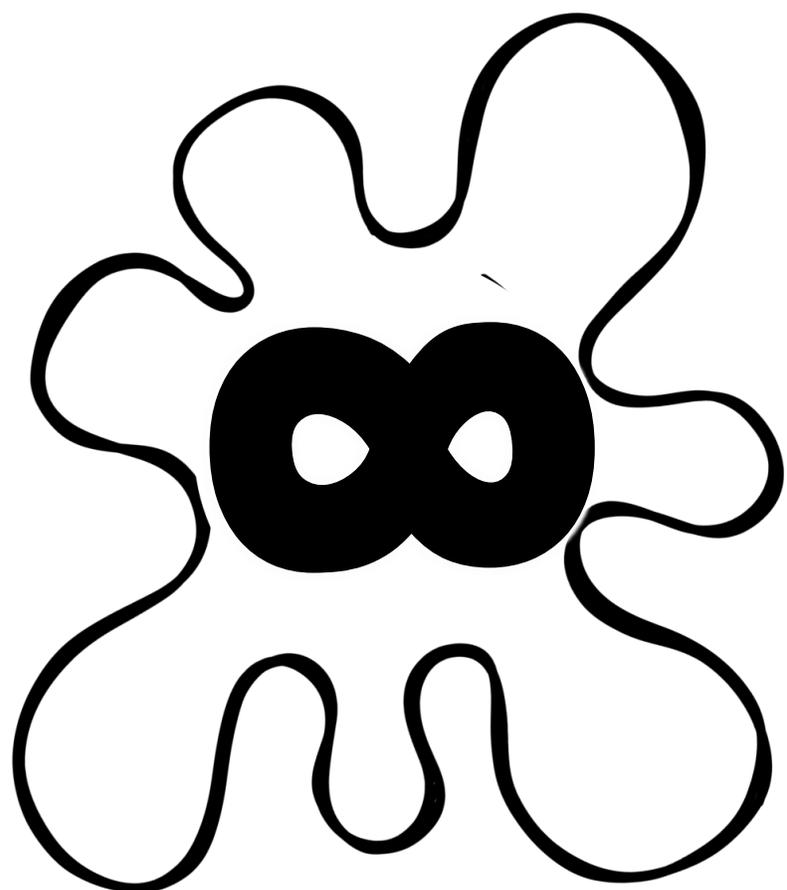
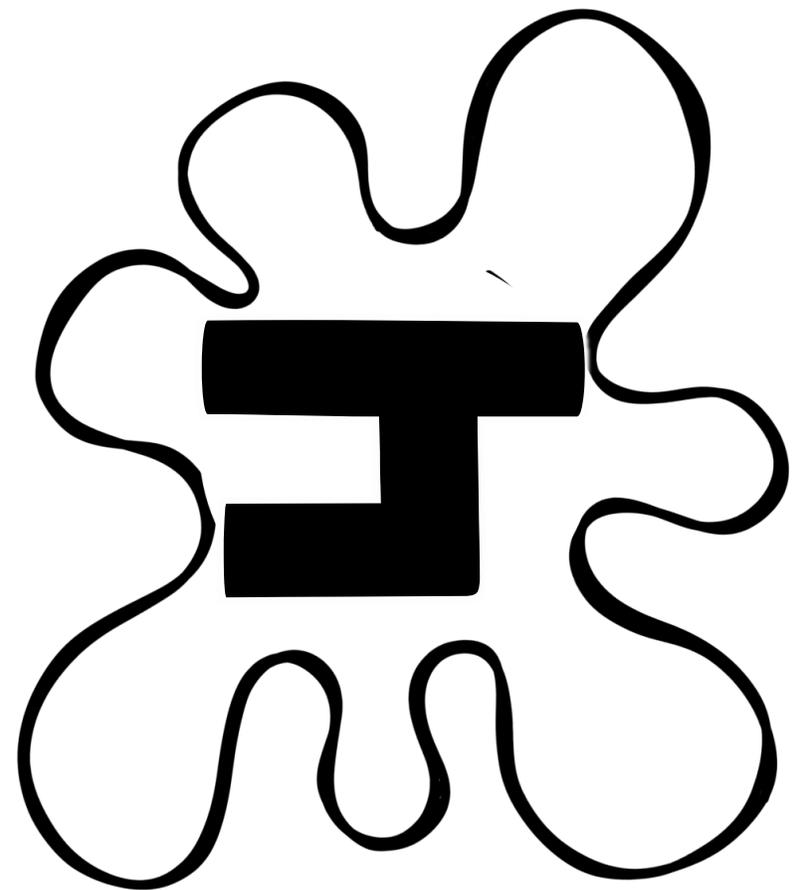


$$4 \times 5 = 20$$

LAUNCH 1

LAUNCH 2





Snow

Snow

SNOWBALL

12

12

SPLAT

1

11

21

31

2

12

22

32

3

13

23

33

4

14

24

34

5

15

25

35

6

7

8

9

10

16

17

18

19

20

26

27

28

29

30

36

37

38

39

40

41

42

43

44

45

51

52

53

54

55

61

62

63

64

65

71

72

73

74

75

46

47

48

49

50

56

57

58

59

60

66

67

68

69

70

76

77

78

79

80

81

82

83

84

85

91

92

93

94

95

SNOWBALL

86

87

88

89

90

96

97

98

99

100

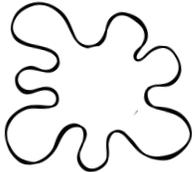
SPLATT



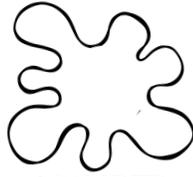
SNOWBALL SPLAT

NAME: _____

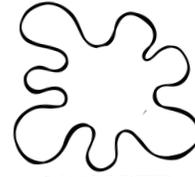
Write 3 different "names" for each number. You can draw pictures, make tally marks, write words, or write number models/equations.



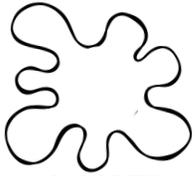
NUMBER



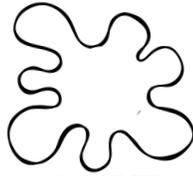
NUMBER



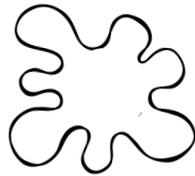
NUMBER



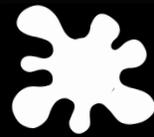
NUMBER



NUMBER



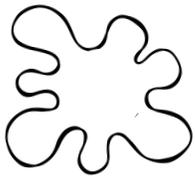
NUMBER



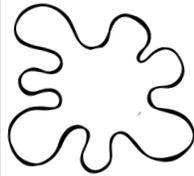
SNOWBALL SPLAT

NAME: _____

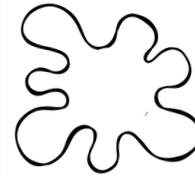
Write 3 different "names" for each number. You can draw pictures, make tally marks, write words, or write number models/equations.



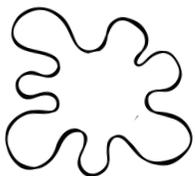
NUMBER



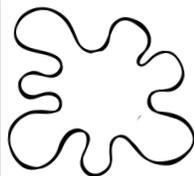
NUMBER



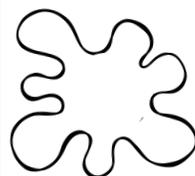
NUMBER



NUMBER



NUMBER



NUMBER

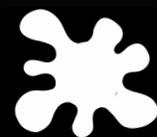


SNOWBALL SPLAT

NAME: _____

Write the symbol in the middle to compare the values of the numbers: < (less than), > (greater than), or = (equal).

	○			○			○	
	○			○			○	
	○			○			○	
	○			○			○	



SNOWBALL SPLAT

NAME: _____

Write the symbol in the middle to compare the values of the numbers: < (less than), > (greater than), or = (equal).

	○			○			○	
	○			○			○	
	○			○			○	
	○			○			○	



SNOWBALL SPLAT

NAME: _____

	+		=			+		=	
	+		=			+		=	
	+		=			+		=	
	+		=			+		=	
	+		=			+		=	



SNOWBALL SPLAT

NAME: _____

	+		=			+		=	
	+		=			+		=	
	+		=			+		=	
	+		=			+		=	
	+		=			+		=	



SNOWBALL SPLAT

NAME: _____

+

<hr/>	

+

<hr/>	

+

<hr/>	

+

<hr/>	

+

<hr/>	

+

<hr/>	



SNOWBALL SPLAT

NAME: _____

+

<hr/>	

+

<hr/>	

+

<hr/>	

+

<hr/>	

+

<hr/>	

+

<hr/>	



SNOWBALL SPLAT

NAME: _____



SNOWBALL SPLAT

NAME: _____





SNOWBALL SPLAT

NAME: _____

<hr/>	

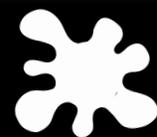
<hr/>	

<hr/>	

<hr/>	

<hr/>	

<hr/>	



SNOWBALL SPLAT

NAME: _____

<hr/>	

<hr/>	

<hr/>	

<hr/>	

<hr/>	

<hr/>	



SNOWBALL SPLAT

NAME: _____

X

=

X

=

X

=

X

=

X

=

X

=

X

=

X

=

X

=

X

=



SNOWBALL SPLAT

NAME: _____

X

=

X

=

X

=

X

=

X

=

X

=

X

=

X

=

X

=

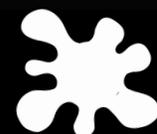
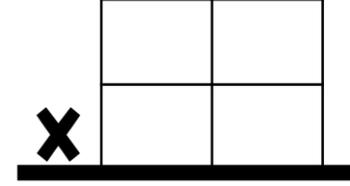
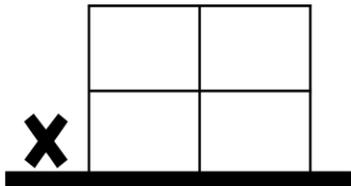
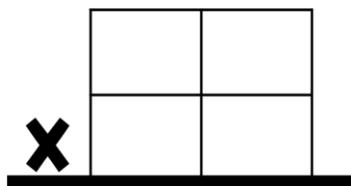
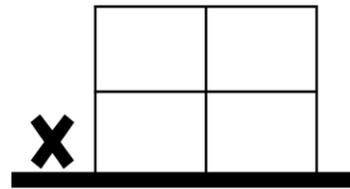
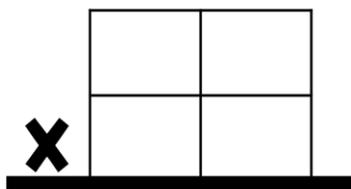
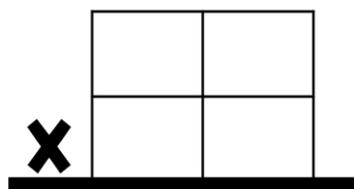
X

=



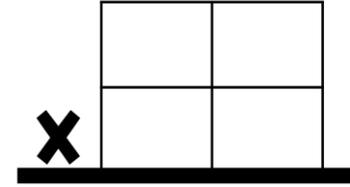
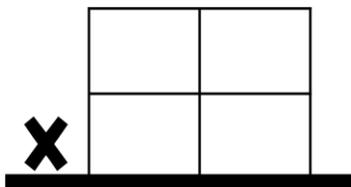
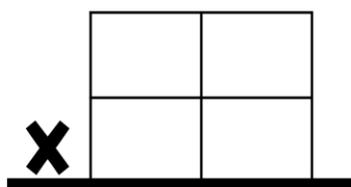
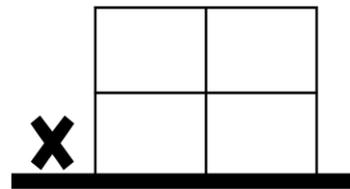
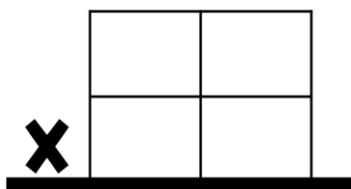
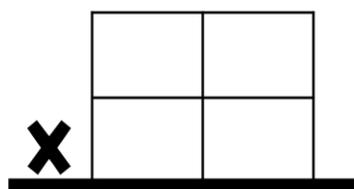
SNOWBALL SPLAT

NAME: _____



SNOWBALL SPLAT

NAME: _____



SOARING SNOWBALLS

- 1) Place your snowball slingshot on the "Start Here" snowball.
- 2) Launch your marshmallow and measure how far it goes.
- 3) Write down your measurement.
- 4) Repeat 4 more times.
- 5) Answer the questions about your measurements.



1	2	3	4	5	6	7	8	9	10	

SOARING SNOWBALLS

- 1) Place your snowball slingshot on the "Start Here" snowball.
- 2) Launch your marshmallow and measure how far it goes.
- 3) Write down your measurement.
- 4) Repeat 9 more times.
- 5) Write down your 10 launch distances in order.
- 6) Answer the questions about your data.



1	2	3	4	5	6	7	8	9	10	



**START
HERE**

©Brooke Brown



**START
HERE**

©Brooke Brown

SOARING SNOWBALLS

--	--	--	--	--	--	--	--	--	--	--

1 2 3 4 5 6 7 8 9 10

©Brooke Brown

--	--	--	--	--	--	--	--	--	--	--

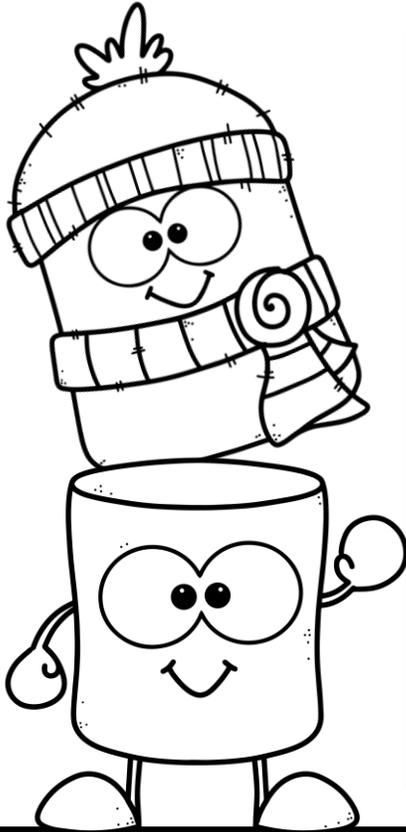
11 12 13 14 15 16 17 18 19 20

--	--	--	--	--	--	--	--	--	--	--

21 22 23 24 25 26 27 28 29 30

SOARING SNOWBALLS

NAME: _____



LAUNCH	DISTANCE
1	
2	
3	
4	
5	

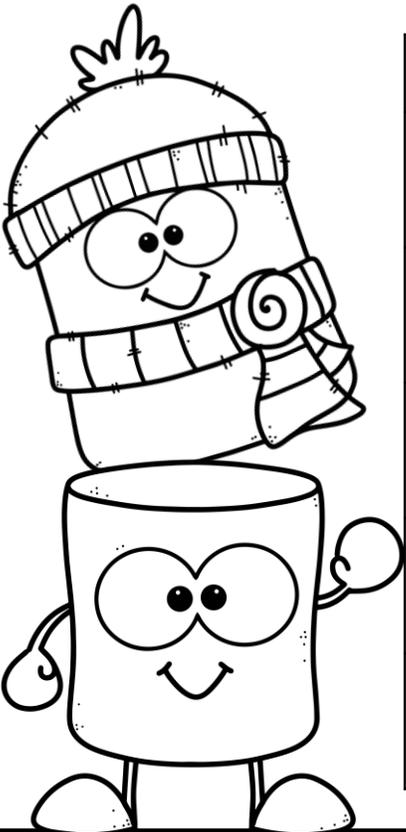
How long was your **FARTHEST** launch?

How long was your **SHORTEST** launch?

©Brooke Brown

SOARING SNOWBALLS

NAME: _____



LAUNCH	DISTANCE
1	
2	
3	
4	
5	

How long was your **FARTHEST** launch?

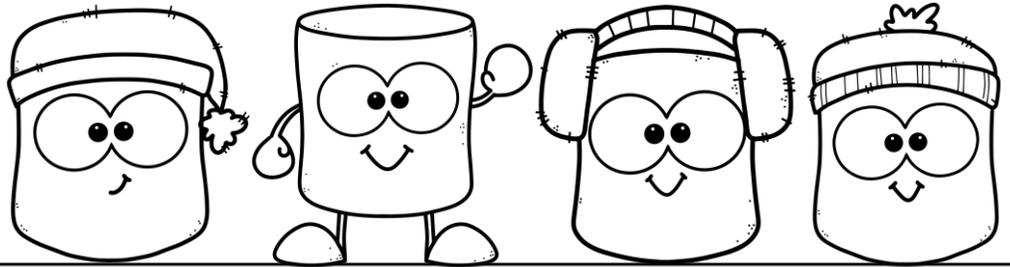
How long was your **SHORTEST** launch?

©Brooke Brown

SOARING SNOWBALLS

NAME: _____

LAUNCH	DISTANCE
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	



LAUNCHES IN ORDER

_____, _____, _____, _____, _____, _____, _____, _____, _____, _____

MAXIMUM

MINIMUM

RANGE

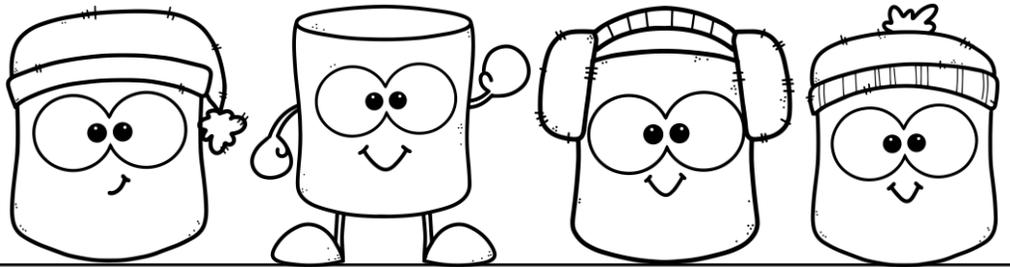
MEDIAN

MODE

SOARING SNOWBALLS

NAME: _____

LAUNCH	DISTANCE
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	



LAUNCHES IN ORDER

_____, _____, _____, _____, _____, _____, _____, _____, _____, _____

MAXIMUM

MINIMUM

RANGE

MEDIAN

MODE

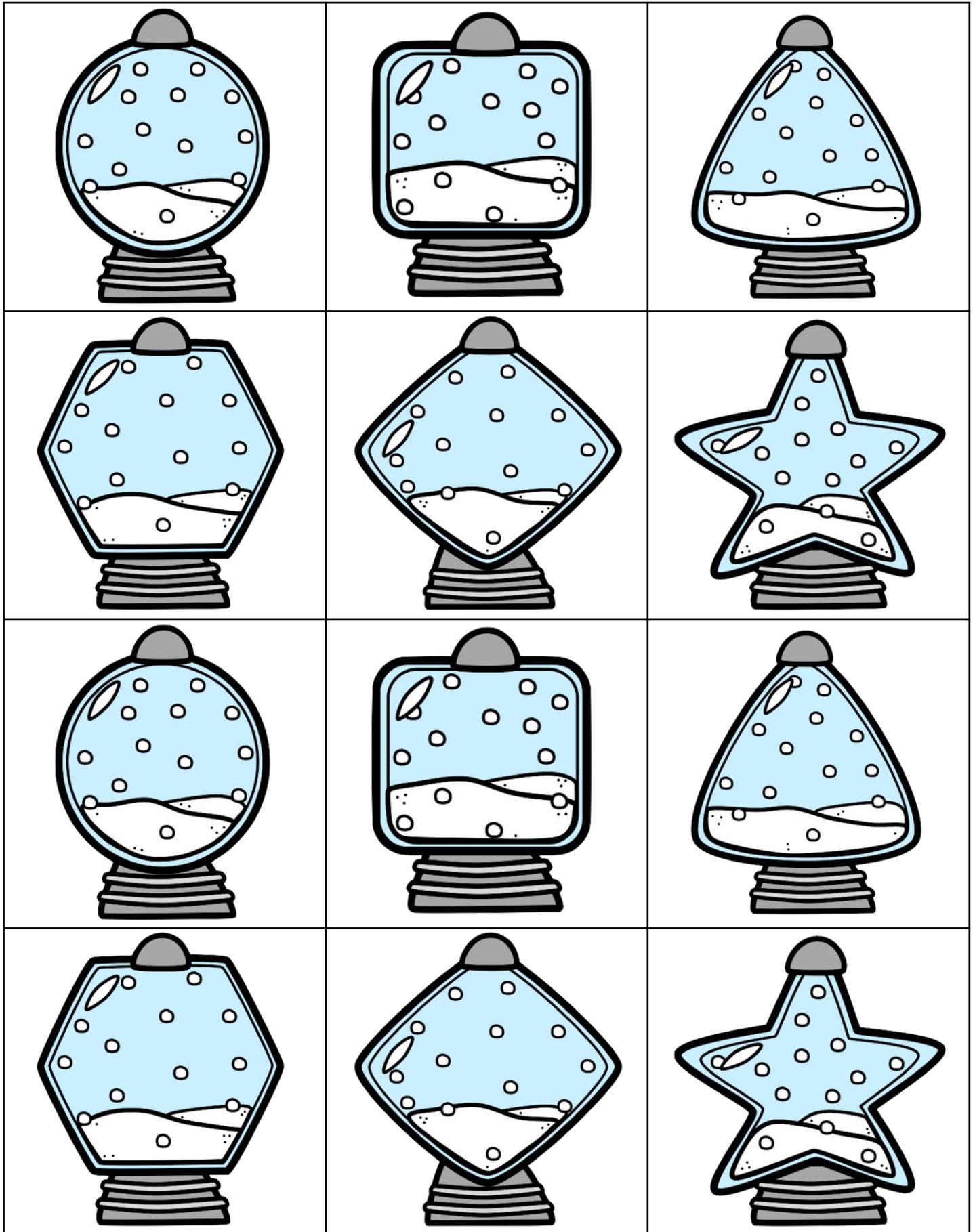
SNOW GLOBE SWISH

- 1) Launch your marshmallow into a snow globe cup.
- 2) Make a tally mark to show which snow globe shape it landed in.
- 3) Repeat 9 more times.
- 4) Color the bars on the graph to match your tally mark totals.



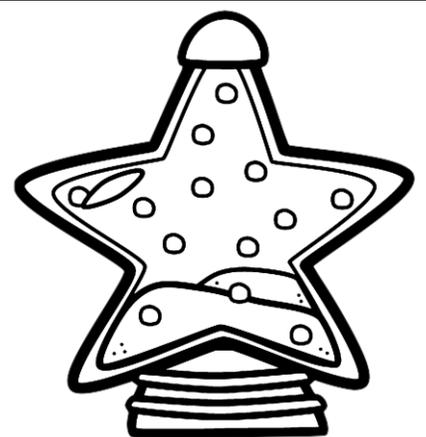
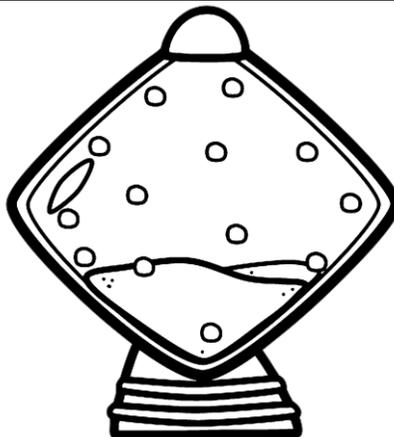
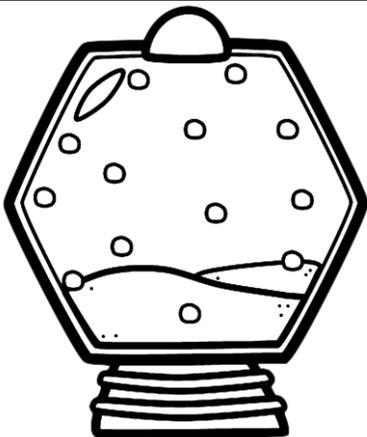
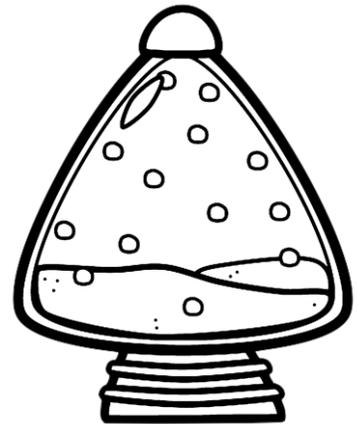
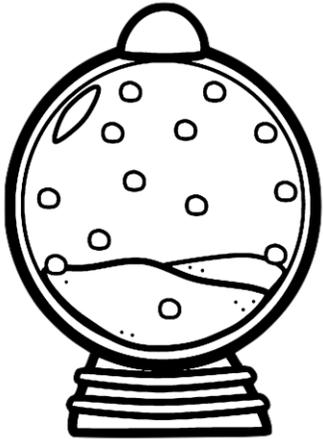
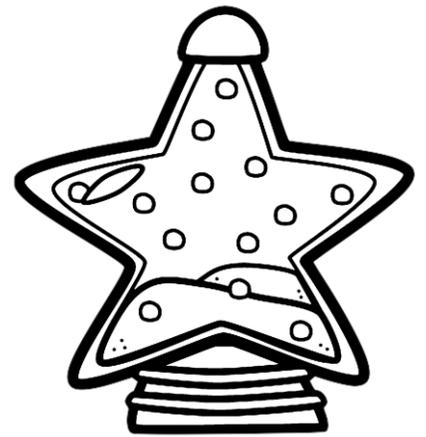
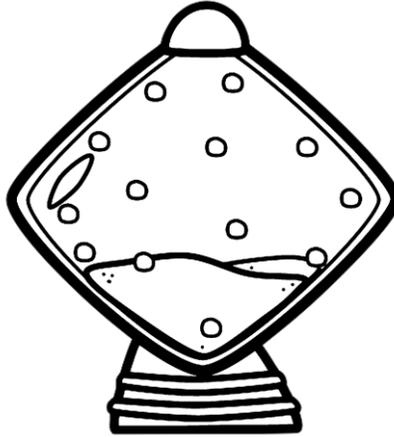
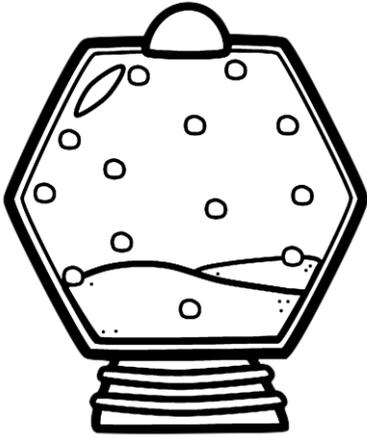
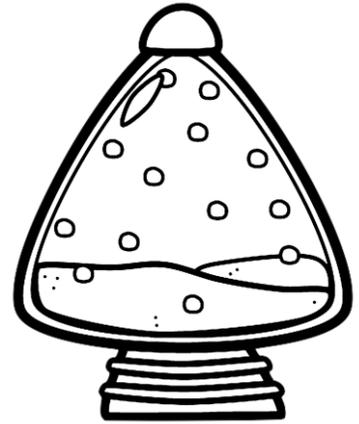
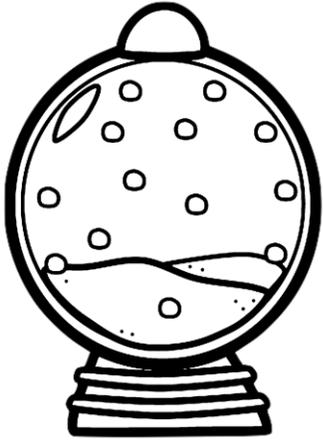
SNOW GLOBE SWISH

Tape snow globes to 6 large cups.
Arrange cups against a wall.



SNOW GLOBE SWISH

Tape snow globes to 6 large cups.
Arrange cups against a wall.



SNOW GLOBE SWISH

- 1) Launch your marshmallow into a snow globe cup.
- 2) Make a tally mark to show which cup it landed in.
- 3) Repeat 9 more times.
- 4) Add up the value of all cups and write the total.
- 5) Write the total number in expanded form.



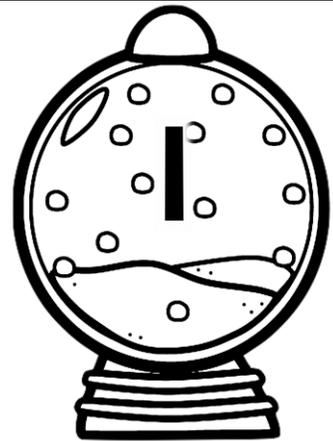
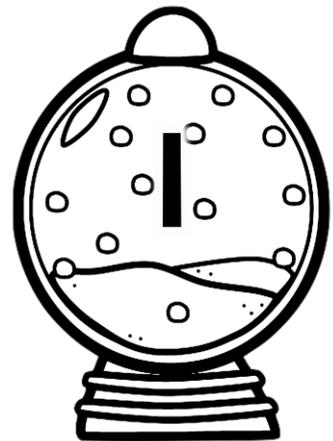
SNOW GLOBE SWISH

Tape snow globes to 6 large cups.
Arrange cups against a wall.



SNOW GLOBE SWISH

Tape snow globes to 6 large cups.
Arrange cups against a wall.

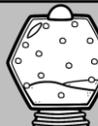
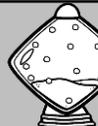




SNOW GLOBE SWISH

NAME: _____

MAKE A TALLY CHART.

MAKE A GRAPH.



SNOW GLOBE SWISH

NAME: _____

MAKE A TALLY CHART.

MAKE A GRAPH.



SNOW GLOBE SWISH

NAME: _____

MAKE A TALLY CHART.

100,000	10,000	1,000	100	10	1

TOTAL VALUE:

_____ , _____

EXPANDED FORM:

_____ + _____ + _____ + _____ + _____



SNOW GLOBE SWISH

NAME: _____

MAKE A TALLY CHART.

100,000	10,000	1,000	100	10	1

TOTAL VALUE:

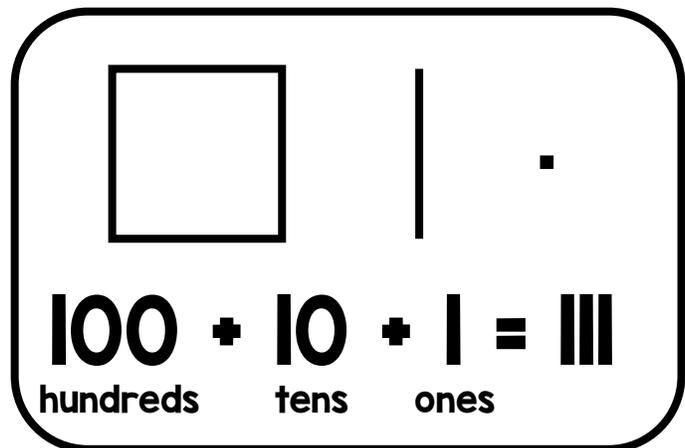
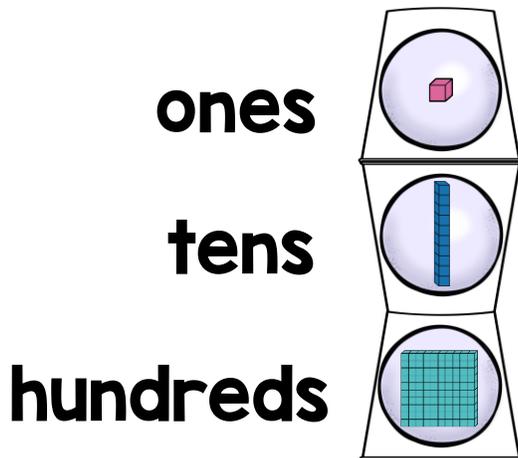
_____ , _____

EXPANDED FORM:

_____ + _____ + _____ + _____ + _____

SNOWMAN SMASH

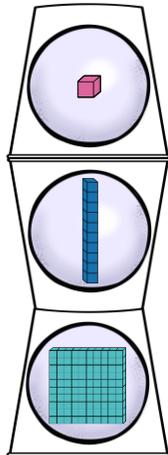
- 1) Stack up your mini cups to make snowmen.
- 2) Launch your marshmallow 3 times into the cup stacks.
- 3) Count the total number of ones, tens, and hundreds cups that fell over.
- 4) Draw the base ten blocks, then write the values and total.



SNOWMAN SMASH

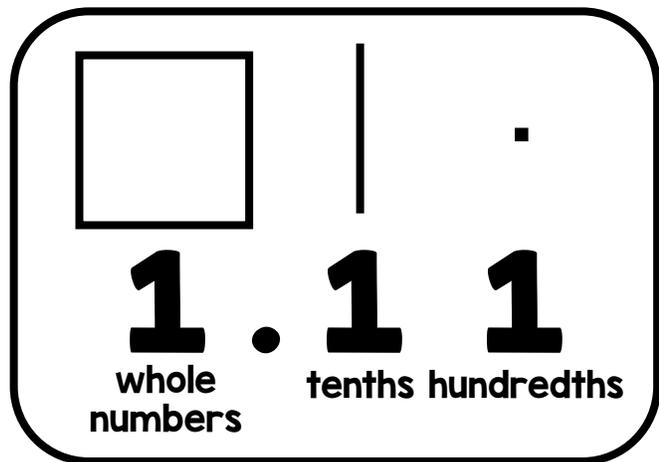
- 1) Stack up your mini cups to make snowmen.
- 2) Launch your marshmallow 3 times into the cup stacks.
- 3) Count the total number of whole numbers, tenths, and hundredths cups that fell over.
- 4) Draw the base ten blocks and write the total decimal value.

hundredths



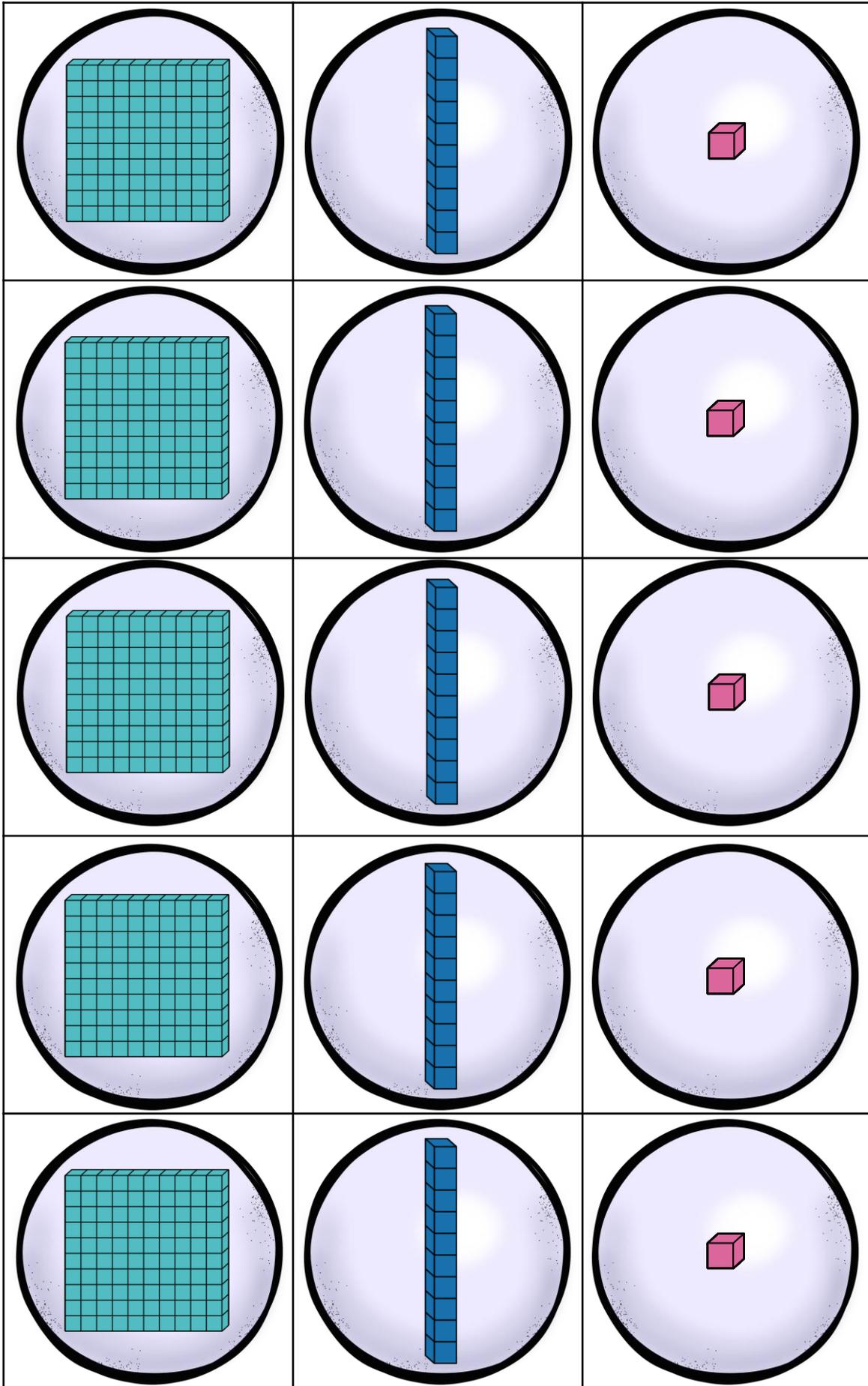
tenths

whole
numbers



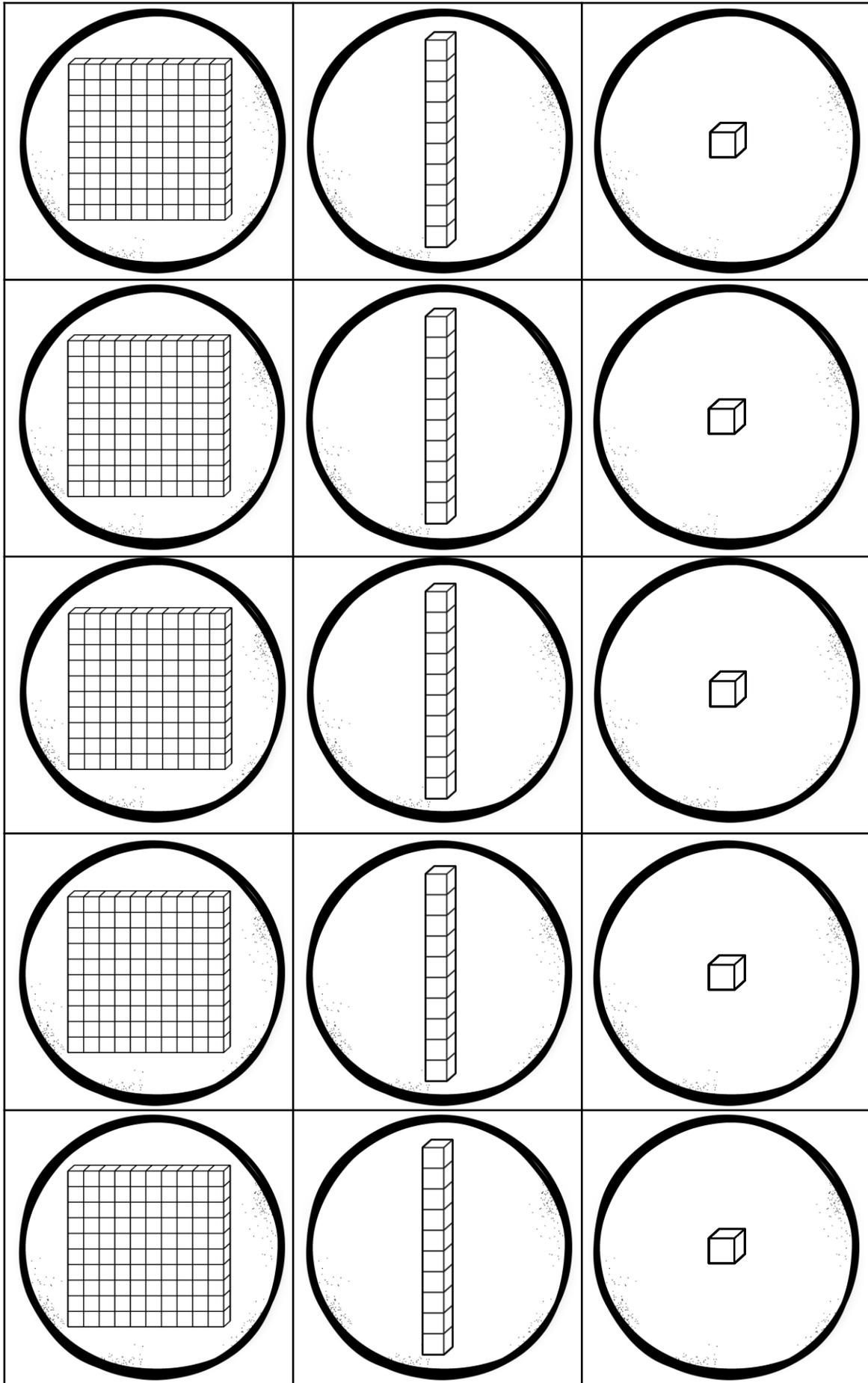
SNOWMAN SMASH

Tape blocks to 12-15 mini cups. Arrange cups in snowman stacks.



SNOWMAN SMASH

Tape blocks to 12-15 mini cups. Arrange cups in snowman stacks.





SNOWMAN SMASH

NAME: _____

Draw the base ten blocks, then write the values and total.

$$\cdot = 1 \quad | = 10 \quad \square = 100$$

$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$			
$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$			

©Brooke Brown



SNOWMAN SMASH

NAME: _____

Draw the base ten blocks, then write the values and total.

$$\cdot = 1 \quad | = 10 \quad \square = 100$$

$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$			
$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$			

©Brooke Brown



SNOWMAN SMASH

NAME: _____

Draw the base ten blocks, then write the total decimal value.



= whole numbers

| = tenths

▪ = hundredths

_____ . _____	_____ . _____	_____ . _____	_____ . _____
_____ . _____	_____ . _____	_____ . _____	_____ . _____



SNOWMAN SMASH

NAME: _____

Draw the base ten blocks, then write the total decimal value.



= whole numbers

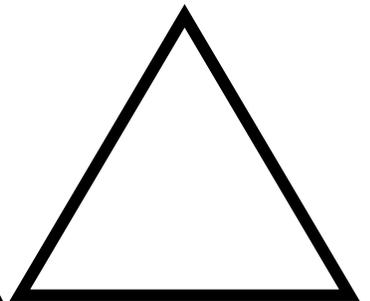
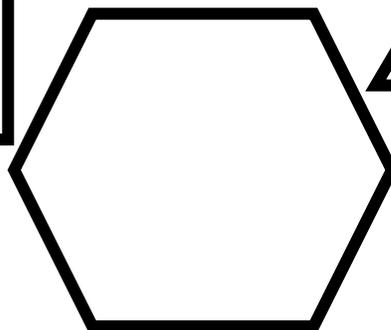
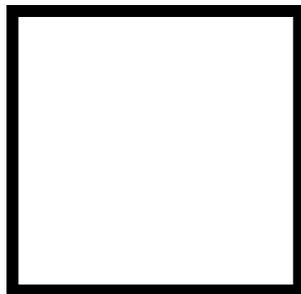
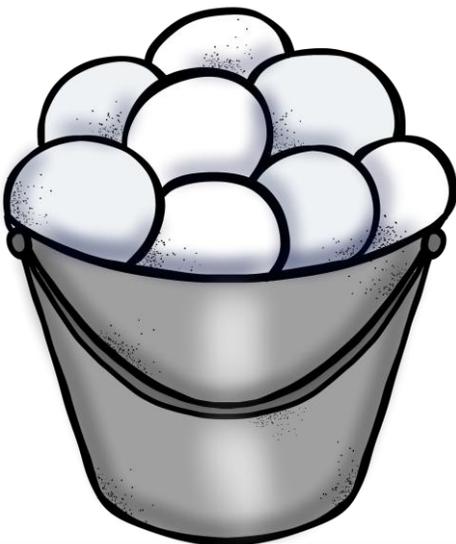
| = tenths

▪ = hundredths

_____ . _____	_____ . _____	_____ . _____	_____ . _____
_____ . _____	_____ . _____	_____ . _____	_____ . _____

SNOWBALL STRUCTURES

Follow the instructions and pictures on your recording sheet to create 2D shapes out of marshmallows and toothpicks.

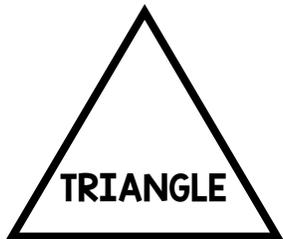




SNOWBALL STRUCTURES

NAME: _____

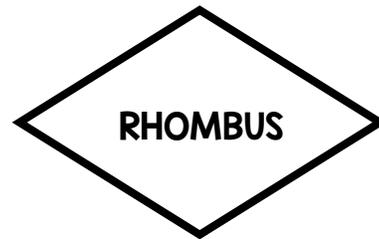
Color each shape after you build it.
Count the sides and vertices.



How many sides? _____
How many vertices? _____



How many sides? _____
How many vertices? _____



How many sides? _____
How many vertices? _____



How many sides? _____
How many vertices? _____



How many sides? _____
How many vertices? _____



How many sides? _____
How many vertices? _____

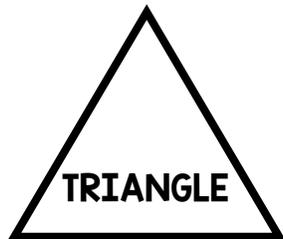
©Brooke Brown



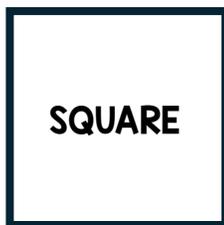
SNOWBALL STRUCTURES

NAME: _____

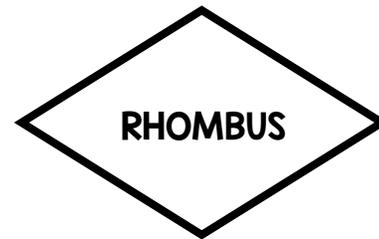
Color each shape after you build it.
Count the sides and vertices.



How many sides? _____
How many vertices? _____



How many sides? _____
How many vertices? _____



How many sides? _____
How many vertices? _____



How many sides? _____
How many vertices? _____



How many sides? _____
How many vertices? _____

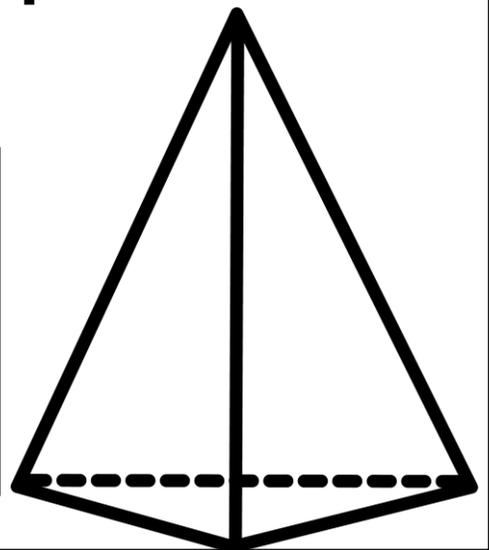
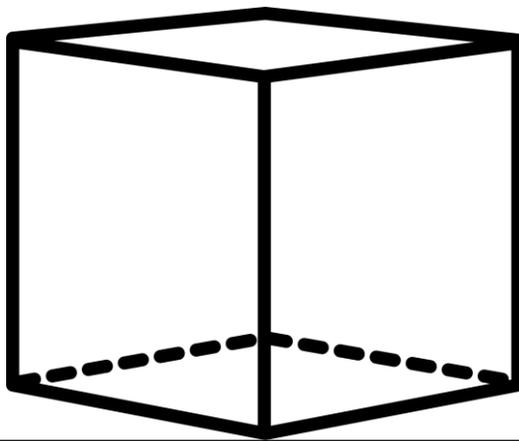
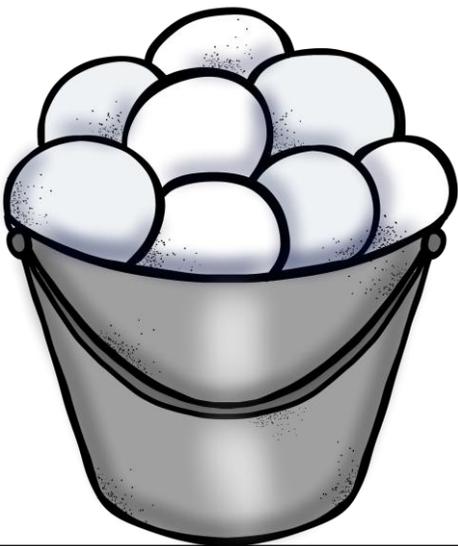


How many sides? _____
How many vertices? _____

©Brooke Brown

SNOWBALL STRUCTURES

Follow the instructions and pictures on your recording sheet to create 3D solids out of marshmallows and toothpicks.



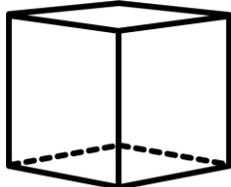


SNOWBALL STRUCTURES

NAME: _____

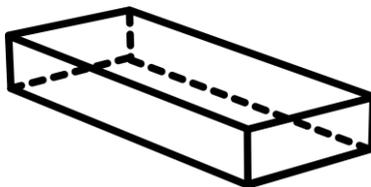
Color each 3D solid after you build it. Count the faces, edges, and vertices.

CUBE



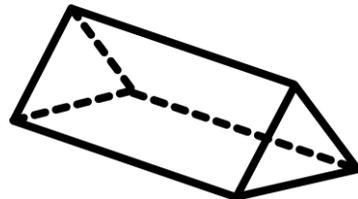
How many faces? _____
How many edges? _____
How many vertices? _____

RECTANGULAR PRISM



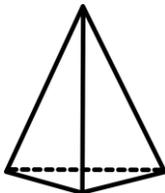
How many faces? _____
How many edges? _____
How many vertices? _____

TRIANGULAR PRISM



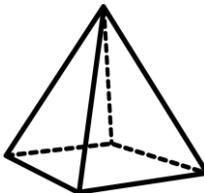
How many faces? _____
How many edges? _____
How many vertices? _____

TRIANGULAR PYRAMID



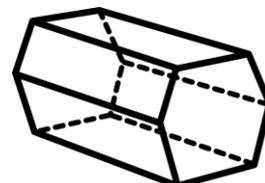
How many faces? _____
How many edges? _____
How many vertices? _____

SQUARE PYRAMID



How many faces? _____
How many edges? _____
How many vertices? _____

HEXAGONAL PRISM



How many faces? _____
How many edges? _____
How many vertices? _____

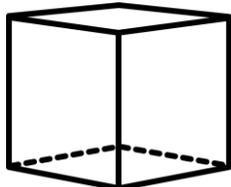


SNOWBALL STRUCTURES

NAME: _____

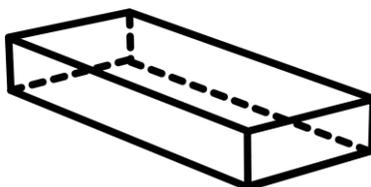
Color each 3D solid after you build it. Count the faces, edges, and vertices.

CUBE



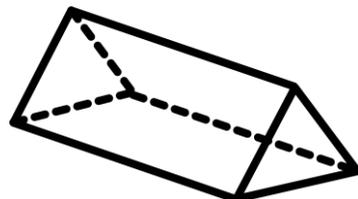
How many faces? _____
How many edges? _____
How many vertices? _____

RECTANGULAR PRISM



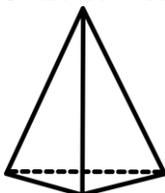
How many faces? _____
How many edges? _____
How many vertices? _____

TRIANGULAR PRISM



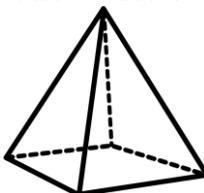
How many faces? _____
How many edges? _____
How many vertices? _____

TRIANGULAR PYRAMID



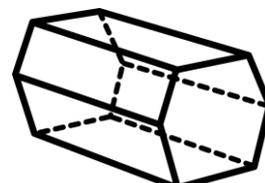
How many faces? _____
How many edges? _____
How many vertices? _____

SQUARE PYRAMID



How many faces? _____
How many edges? _____
How many vertices? _____

HEXAGONAL PRISM



How many faces? _____
How many edges? _____
How many vertices? _____



SNOWBALL STRUCTURES

NAME: _____

What shapes and structures can build? Draw your creations below.

©Brooke Brown



SNOWBALL STRUCTURES

NAME: _____

What shapes and structures can build? Draw your creations below.

©Brooke Brown

TERMS OF USE & CREDITS

Thank you for purchasing a resource created by Brooke Brown of Teach Outside the Box, LLC!

YOU MAY

- Use resources for your own personal use.
- Use resources for your own classroom and/or students
- Copy resources for use in your classroom by your students.
- Purchase unlimited additional licenses for others.
- Review resources for the purpose of recommendation, provided that you provide a link for resources to be purchased directly from Teach Outside the Box.

YOU MAY NOT

- Give resources to others without first purchasing additional licenses.
- Copy resources for use by others without first purchasing additional licenses.
- Post resources (or any portion or modification thereof) on the internet or any website without first obtaining written consent from Brooke Brown.
- Copy or modify any part of this document to offer to others for free or for sale.

CREDITS

Thank you to the following artists for your amazing fonts, digital elements, and clip art that make my resources beautiful and functional!

