

# States of Matter

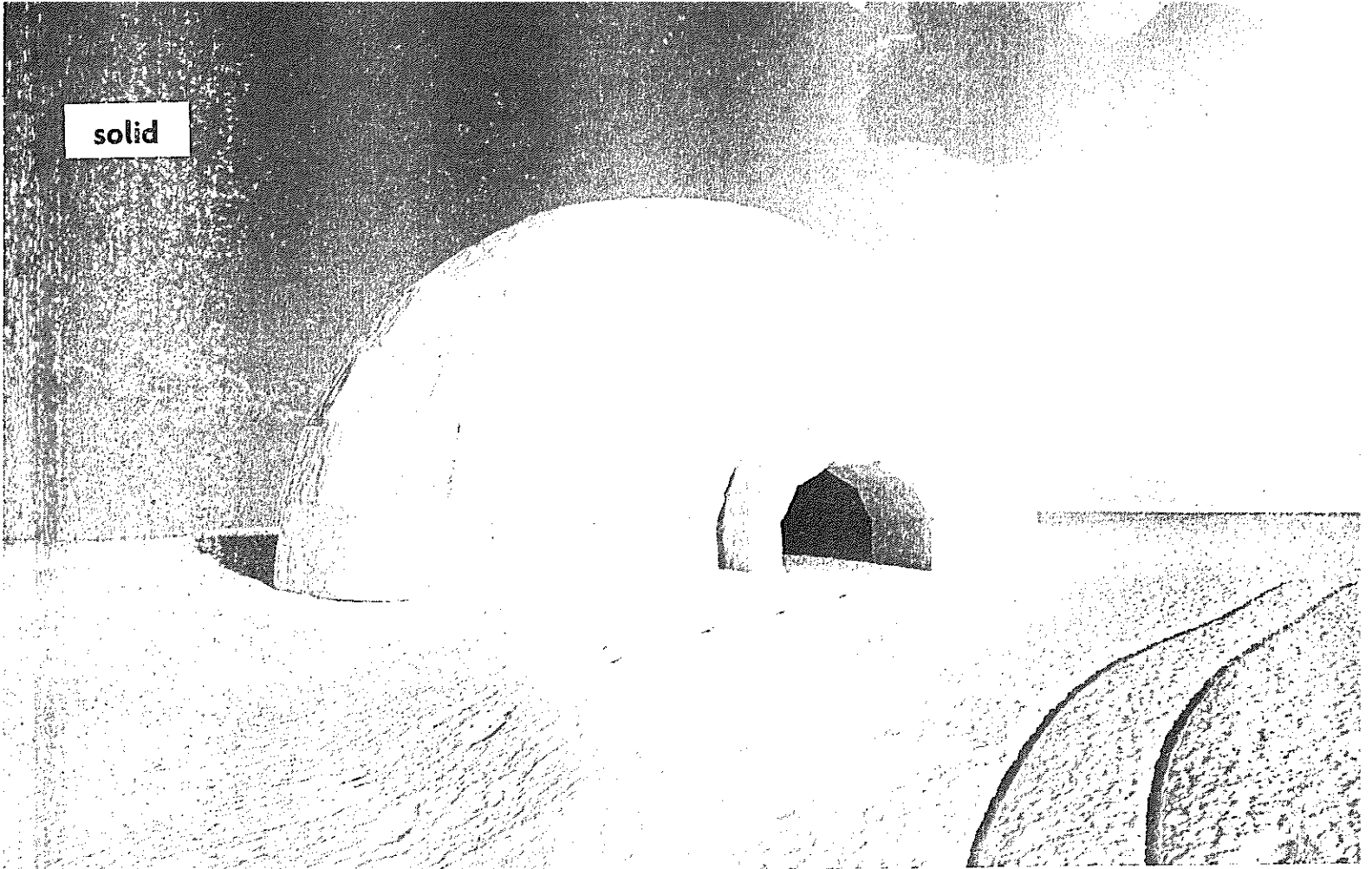
Essential Question

# How can something old become new?

liquid



solid



gas



*Remember  
to annotate  
as you read.*

## Soap Shapes

- 1 Soap can easily be sculpted into any shape you want! All it takes is imagination.
- 2 Start with a cup of soap flakes or ask someone to help you grate a bar of soap. Place the soap into a bowl and add just enough water to make it look and feel like dough. If you want colorful soap, add a few drops of food coloring.
- 3 Now you can shape the soap. You may want to think of a theme, such as ocean life. You can make soap in the shape of fish, turtles, and sea stars. Or use cookie cutters. Soap that you shape yourself is really fun to use!



# It's All Water

by Constance Andrea Keremes

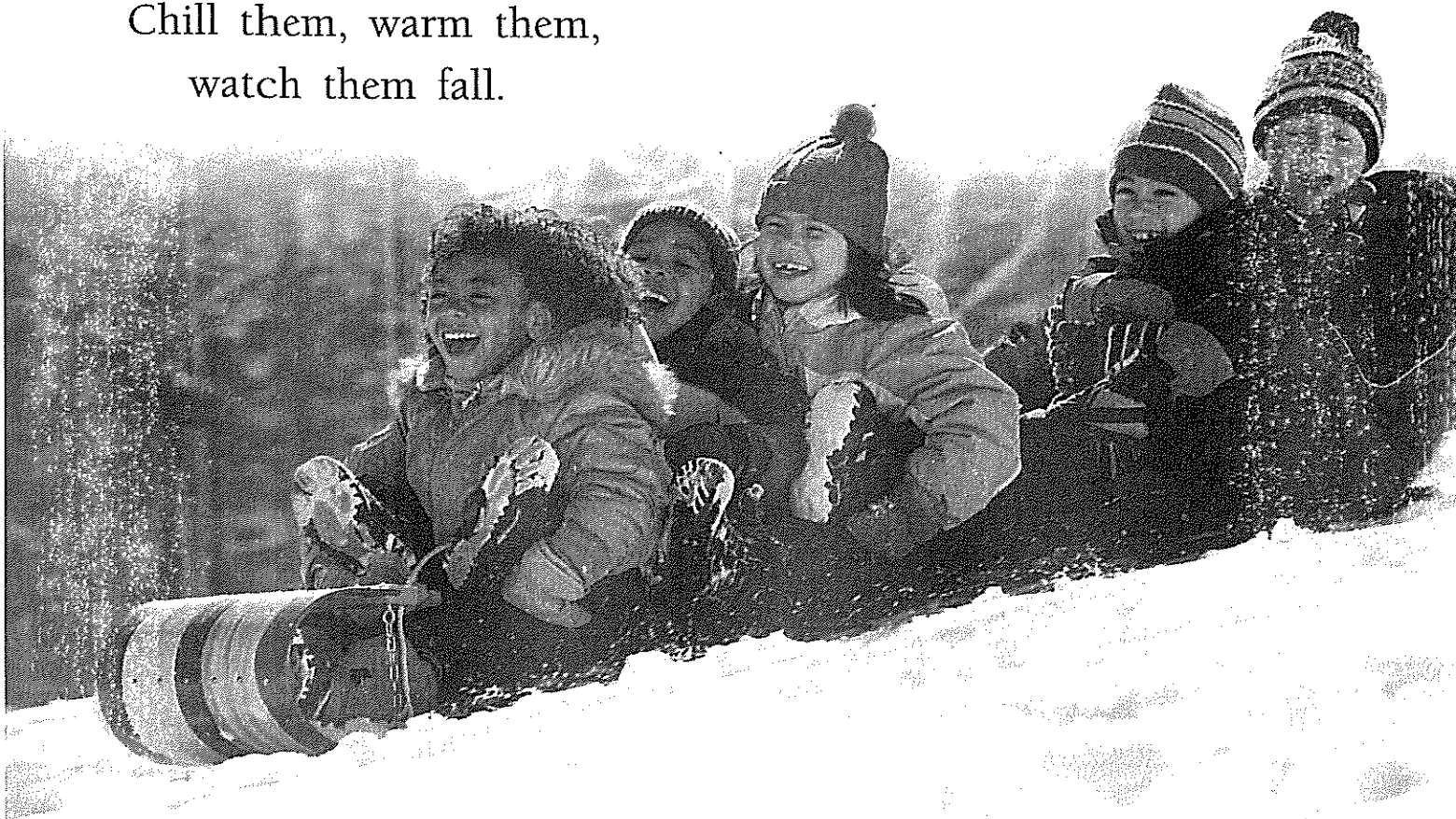
All the boys and girls I know  
Say they love to play in snow.  
Mention rain, what do they say?

“Come again some other day.”  
As for sleet, no one's a fan.

We all avoid it if we can.  
Who among us cares for fog  
Except for bullfrogs in a bog?

Weather changes, as you see,  
It's a great variety.

Drops of water start it all,  
Chill them, warm them,  
watch them fall.



Remember  
to annotate  
as you read.

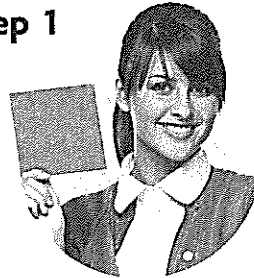
# The Art of Origami

1 For thousands of years, people have been changing the size and shape of paper by folding it. Origami, *the art of paper-folding*, began in China, and then spread to Japan, where it became popular. In fact, the word *origami* comes from the Japanese words *ori*, which means *folding*, and *kami*, which means *paper*.



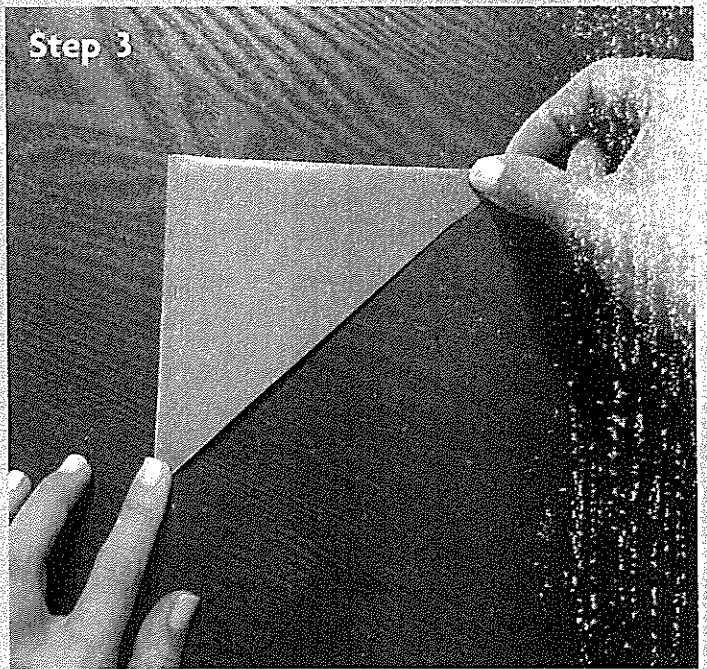
2 Today, you can try your hand at this ancient craft by folding a square of paper to create a dog's face. The directions are easy to follow, so let's get started.

3 **Step 1:** Begin with a square piece of white or colored paper. A paper that is 8 inches square works well.

**Step 1**

4 **Step 2:** Fold the paper in half from top corner to bottom corner. Now you have a triangle.

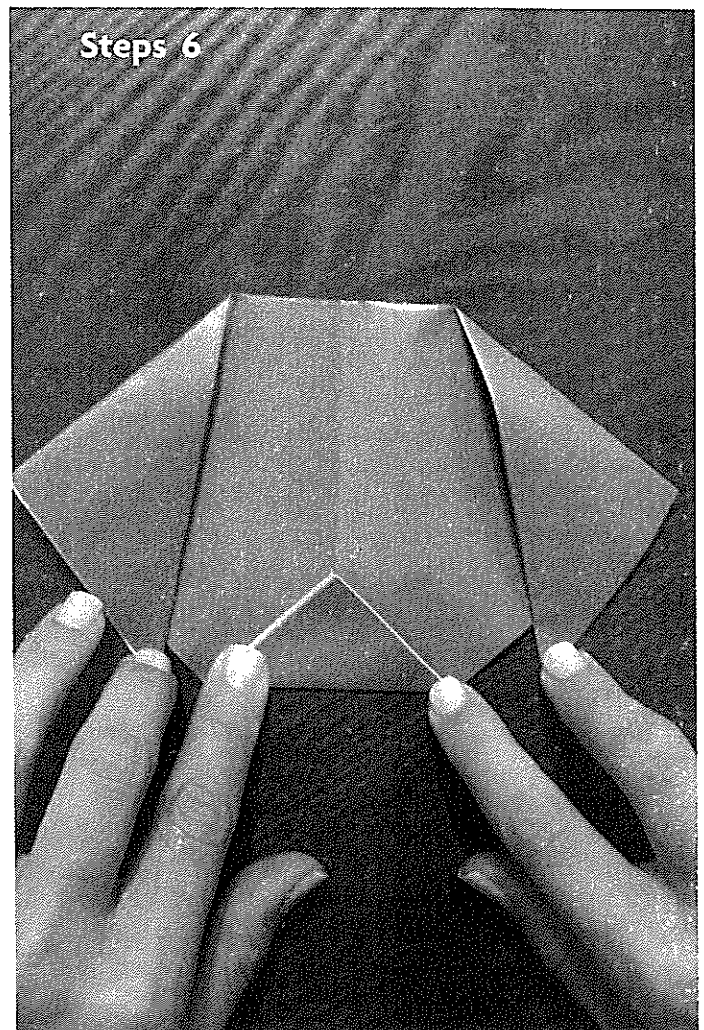
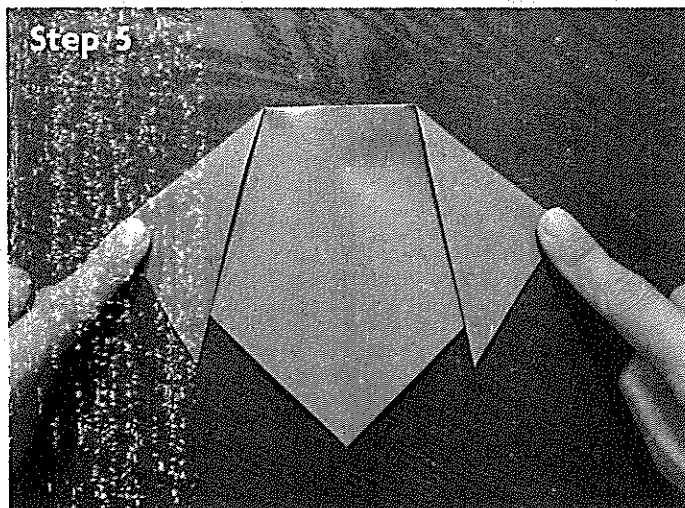
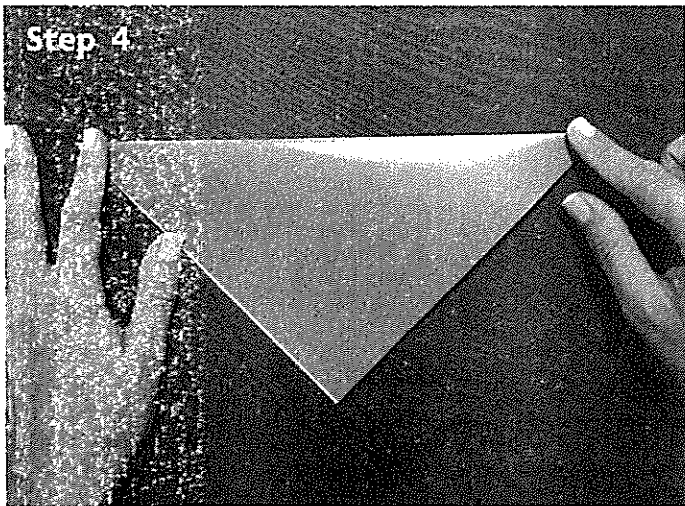
5 **Step 3:** Fold the triangle in half again, by folding the left point to the right point.

**Step 2****Step 3**

6 **Step 4:** Unfold the triangle. There will be a crease down the middle.

7 **Step 5:** To make the ears, fold both corners of the triangle down at an angle.

8 **Step 6:** Fold back the point at the bottom of the dog's head.





9 **Step 7:** Draw two eyes and a nose.  
Now your dog has a face.

10 You began with a square piece of paper and transformed it into a dog's face. How amazing is that!



Remember  
to annotate  
as you read.

# Sand Sculpture

1 Picture yourself at the beach on a hot summer day—soft sand, crashing waves, squawking seagulls, and sunny skies. Did you remember to bring some pails and shovels? If so, you have everything you need to build a sand castle. Anyone can build one, but not all sand castles are the same.

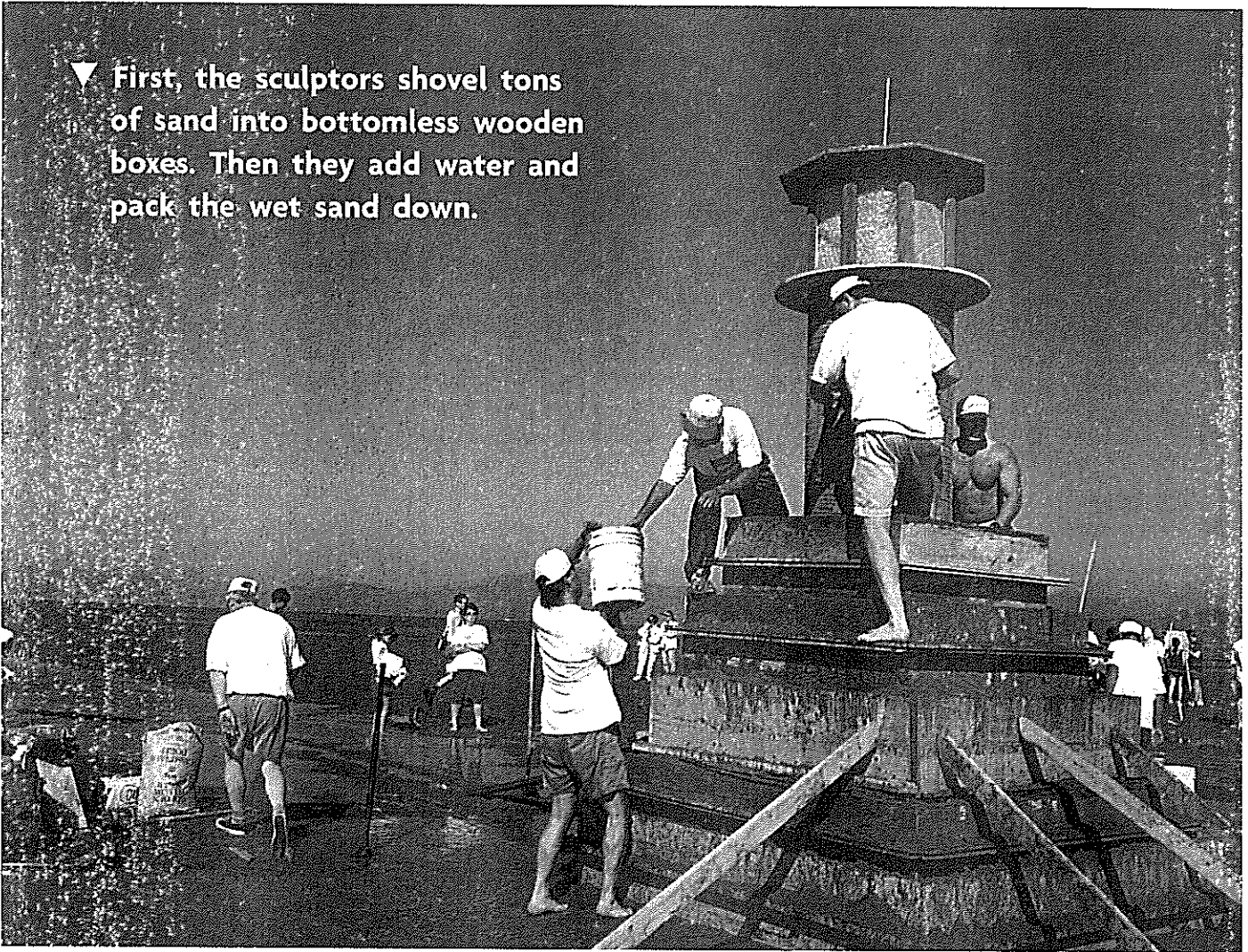




▲ It takes skill, talent, hard work, and about four days to construct a sand sculpture like this one.

- 2 For some people, sand castles are more than just fun at the beach. They're a way to create art and make money. Sand sculptors enter competitions to win big prizes. When they compete, they use the same simple items as you do—shovels, molds, sand, and water. But their knowledge of science, construction, and art results in some amazing creations.

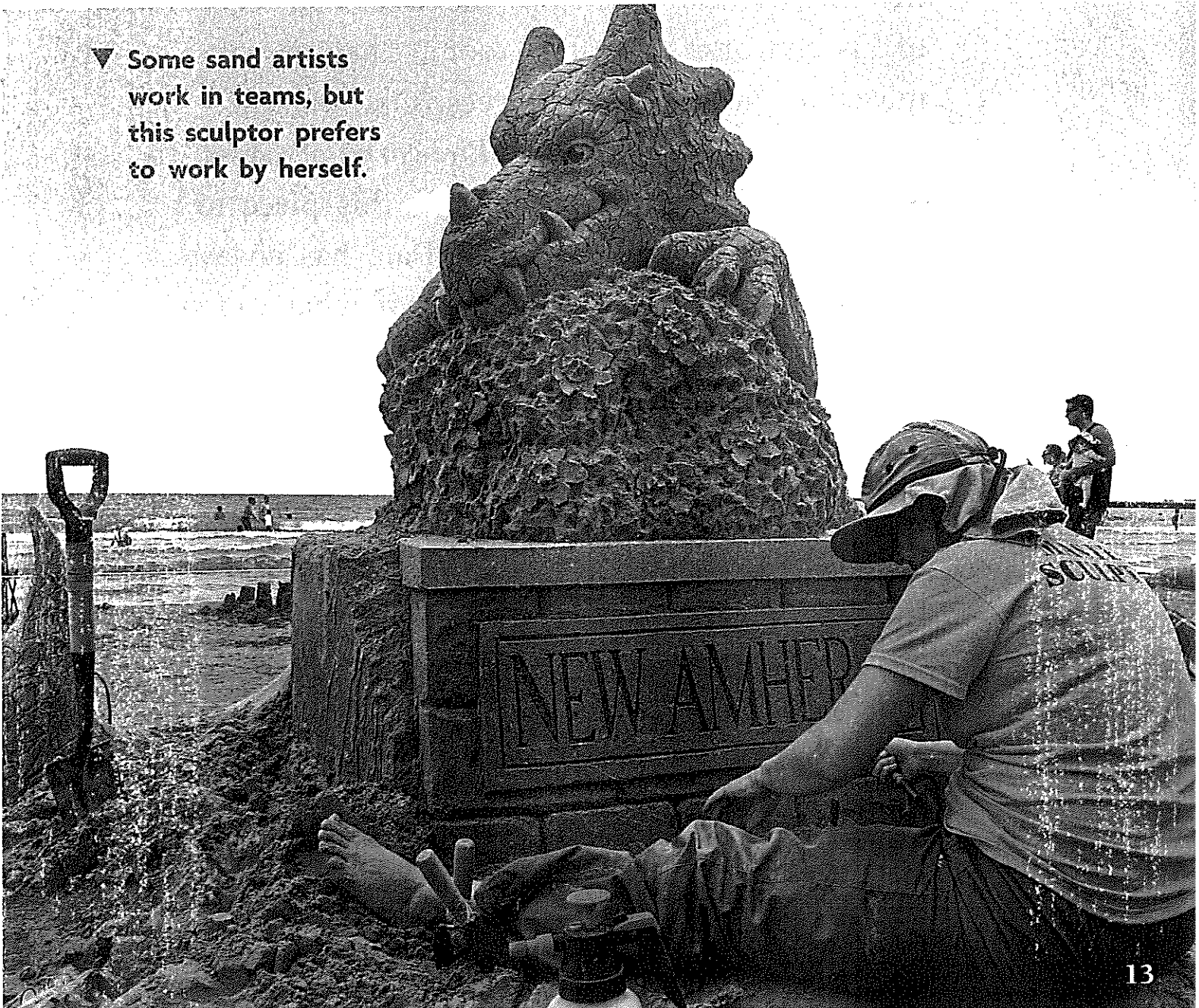
▼ First, the sculptors shovel tons of sand into bottomless wooden boxes. Then they add water and pack the wet sand down.



3 Here's where the science comes in. By themselves, dry grains of sand are slippery, so they cannot stick together. But water changes everything. That's because water creates tiny "bridges" that hold the grains of sand together. Sand sculptors know just how much water to add. Using too much or too little will cause their creations to crumble.

- 4 The sculptors work quickly to stack their blocks of hard, wet sand. They smooth the sand and shape it using their hands and scrapers. They carve every detail with fine tools. Finally, a stunning work of art appears—for a little while, anyway. When the sand dries out, even the winning sculptures will fall apart.

▼ Some sand artists work in teams, but this sculptor prefers to work by herself.



# Build Reflect Write

## Build Knowledge

Based on this week's reading, explain how people change matter to make origami and sand sculptures.

Changing Matter	
Origami	
Sand Sculpture	

## Reflect

**How can something old become new?**

Based on this week's texts, write new ideas and questions you have about the essential question.

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## Research and Write

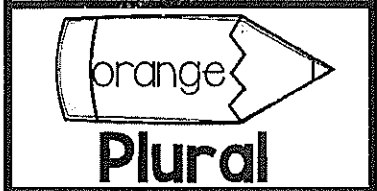
In this unit, you learned about how people can change the size, shape, and states of matter to make things. Which property of matter do you think is most important? Why? In a short essay, state your opinion and provide one or more reasons to support it.

### Choose Your Topic

This week, conduct a pre-search to identify a property of matter your class would like to research. Construct guiding questions that will help you focus your research on the information you will need to write your short essay.



Singular



Plural

# SINGULAR NOUNS

# PLURAL NOUNS

Directions: Use the code to color.

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

Created by Kadeen © Mrs KadeenTeaches 2017

pens, snack, girls, candles, shoe, belt  
 star, mask, bottle, socks, mats  
 bag, plant, ducks, boxes  
 map, candy, van, snacks  
 markers, chair, coins, man, pants, snake, brushes  
 dress, cars, cakes, boxes  
 tables, rocks, ring, cart  
 windows, toy, boy, towel, slippers  
 lamp, orange, tree, books, apple, frog  
 crayon, orange, tree, books, apple, frog



I'll



who's



how's



you'll

# CONTRACTIONS

Directions: Use the code to **Name:** \_\_\_\_\_ color the correct contractions.

Created by Kadeen © Mrs. KadeenTeaches 2017

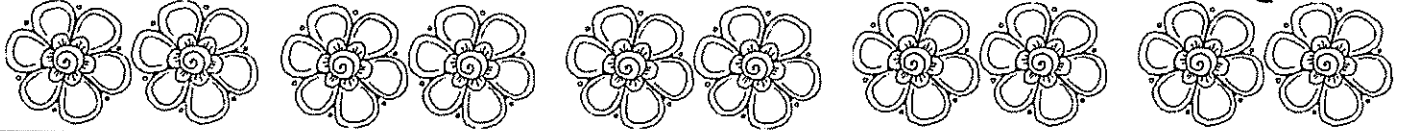
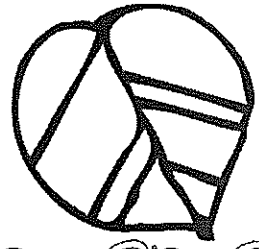
The main area of the worksheet is a large, irregular shape composed of many smaller, interconnected shapes. Each of these smaller shapes contains one of the following words: "I will", "who is", "how is", or "you will". The words are written in a simple, sans-serif font and are oriented in various directions within their respective shapes. The shapes themselves are also irregular, resembling abstract patterns or a jigsaw-like arrangement. The entire area is intended for coloring based on the key provided at the top of the page.





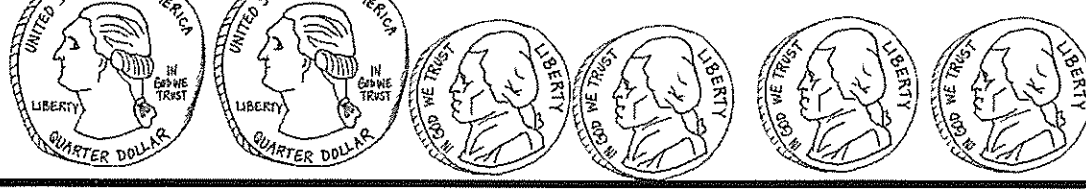



# Adding Coins

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

Directions: Add the value of the coins and write the amount. 1.MD.C.7



1. 	62¢
2. 	
3. 	
4. 	
5. 	
6. 	

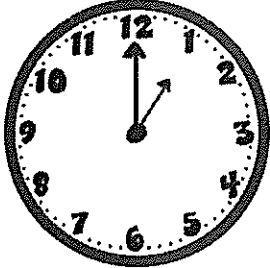
Name: \_\_\_\_\_

# Time Hour & Half Hour



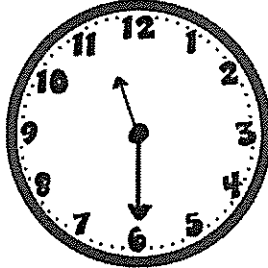
Directions: Write the time shown on these clocks. 2.MD.C.7

1.



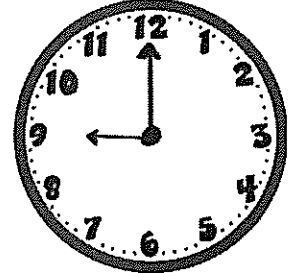
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2.



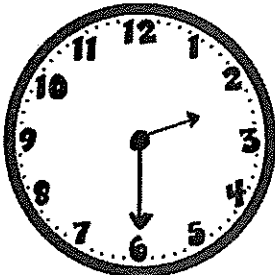
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3.



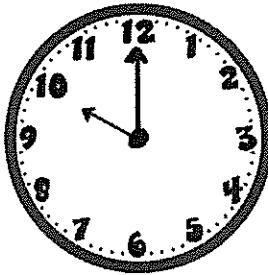
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4.



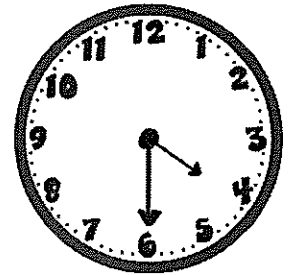
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5.



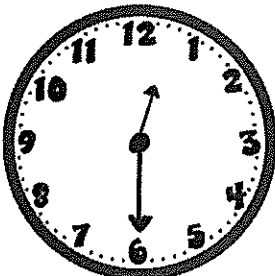
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6.



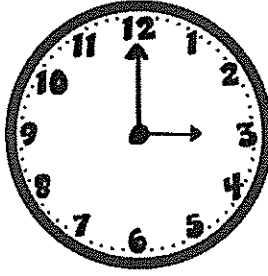
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7.



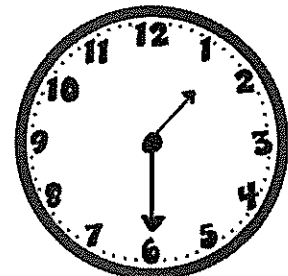
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8.



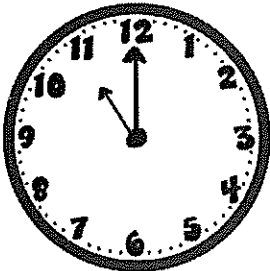
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9.



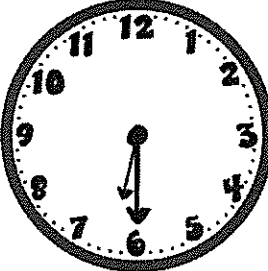
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10.



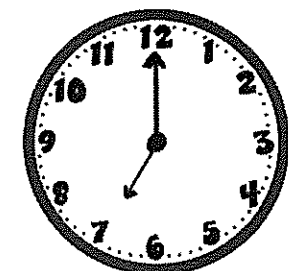
\_\_\_\_\_

11.



\_\_\_\_\_

12.

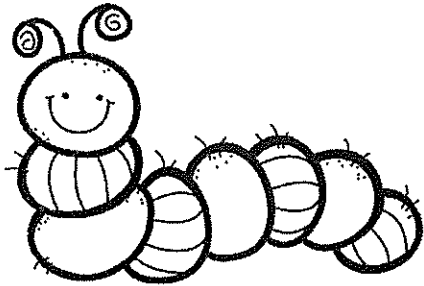


\_\_\_\_\_

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

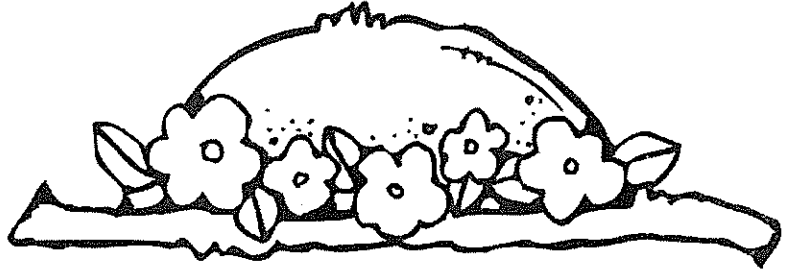
# How Long Is it

Directions: Measure each object with a ruler and a small paper clip. Record your answers. 2.MD.A.2



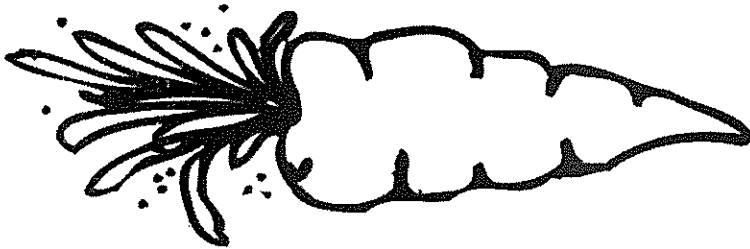
About \_\_\_\_\_ inches

About \_\_\_\_\_ paper clips



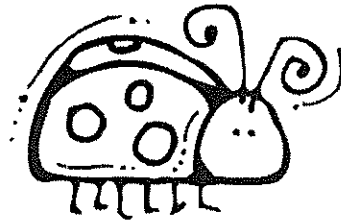
About \_\_\_\_\_ inches

About \_\_\_\_\_ paper clips



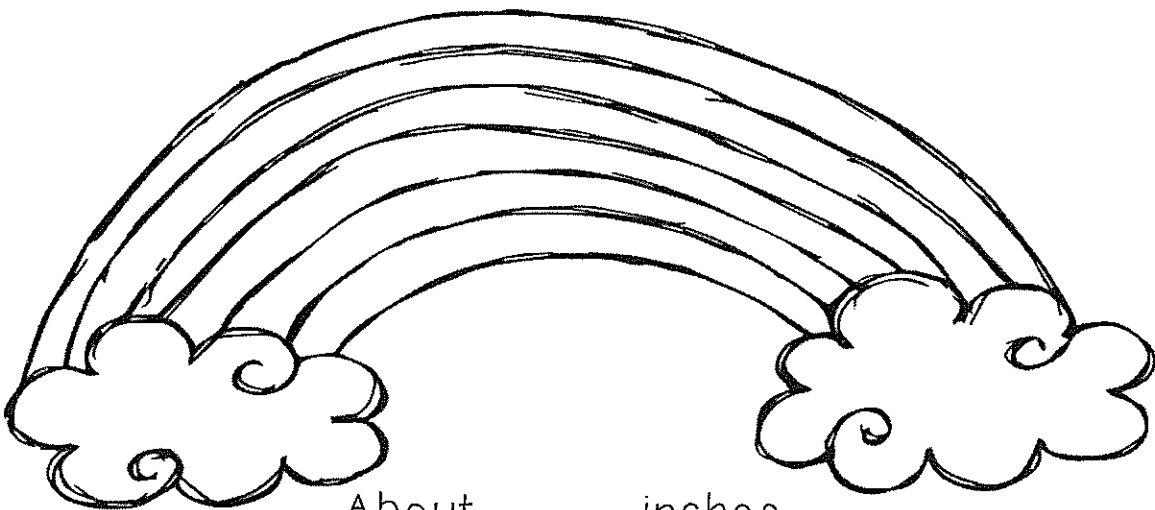
About \_\_\_\_\_ inches

About \_\_\_\_\_ paper clips



About \_\_\_\_\_ inches

About \_\_\_\_\_ paper clips



About \_\_\_\_\_ inches

About \_\_\_\_\_ paper clips

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

# Adding 4 {2-digit} numbers

Directions: Add the numbers using your place value strategies.

2.NBT.B.6

$$\begin{array}{r} 23 \\ 34 \\ 47 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ 23 \\ 32 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ 34 \\ 99 \\ + 65 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ 35 \\ 42 \\ + 81 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ 59 \\ 36 \\ + 32 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ 70 \\ 50 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ 85 \\ 18 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ 53 \\ 36 \\ + 14 \\ \hline \end{array}$$

$$\begin{array}{r} 69 \\ 41 \\ 78 \\ + 47 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ 47 \\ 78 \\ + 46 \\ \hline \end{array}$$

$$\begin{array}{r} 69 \\ 23 \\ 44 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ 46 \\ 59 \\ + 29 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ 70 \\ 88 \\ + 35 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ 50 \\ 54 \\ + 60 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ 47 \\ 35 \\ + 82 \\ \hline \end{array}$$

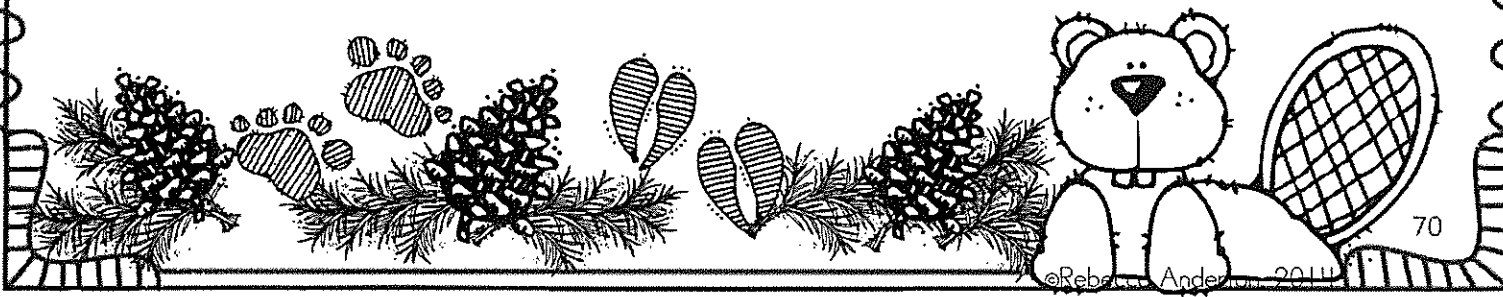
$$\begin{array}{r} 59 \\ 87 \\ 19 \\ + 45 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ 59 \\ 78 \\ + 35 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ 33 \\ 31 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ 28 \\ 79 \\ + 95 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ 26 \\ 27 \\ + 28 \\ \hline \end{array}$$



# Mixed TRIPLE DIGIT

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

## Addition & Subtraction {Without Regrouping}

Directions: Add or subtract. 2.NBT.B.5

$$\begin{array}{r} 540 \\ + 209 \\ \hline \end{array}$$

$$\begin{array}{r} 728 \\ - 315 \\ \hline \end{array}$$

$$\begin{array}{r} 452 \\ + 426 \\ \hline \end{array}$$

$$\begin{array}{r} 625 \\ - 492 \\ \hline \end{array}$$

$$\begin{array}{r} 294 \\ + 382 \\ \hline \end{array}$$

$$\begin{array}{r} 540 \\ - 230 \\ \hline \end{array}$$

$$\begin{array}{r} 243 \\ + 542 \\ \hline \end{array}$$

$$\begin{array}{r} 996 \\ - 263 \\ \hline \end{array}$$

$$\begin{array}{r} 440 \\ + 238 \\ \hline \end{array}$$

$$\begin{array}{r} 586 \\ - 343 \\ \hline \end{array}$$

$$\begin{array}{r} 480 \\ + 430 \\ \hline \end{array}$$

$$\begin{array}{r} 735 \\ - 483 \\ \hline \end{array}$$

$$\begin{array}{r} 369 \\ + 420 \\ \hline \end{array}$$

$$\begin{array}{r} 494 \\ - 262 \\ \hline \end{array}$$

$$\begin{array}{r} 324 \\ + 562 \\ \hline \end{array}$$

$$\begin{array}{r} 493 \\ - 262 \\ \hline \end{array}$$

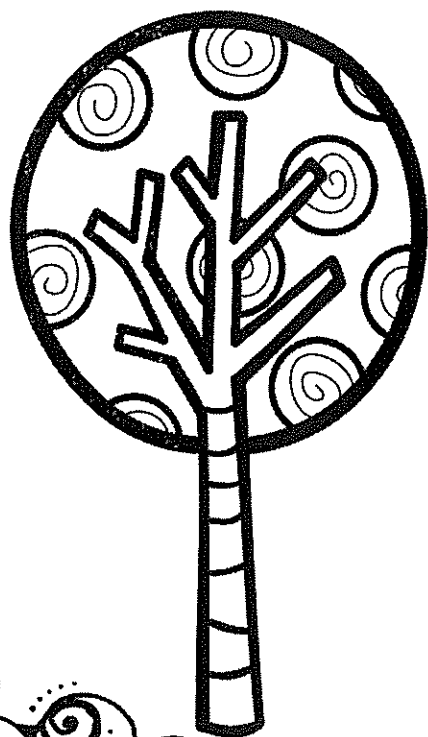
$$\begin{array}{r} 480 \\ - 260 \\ \hline \end{array}$$

$$\begin{array}{r} 314 \\ + 374 \\ \hline \end{array}$$

$$\begin{array}{r} 134 \\ + 503 \\ \hline \end{array}$$

$$\begin{array}{r} 584 \\ - 372 \\ \hline \end{array}$$

$$\begin{array}{r} 562 \\ + 420 \\ \hline \end{array}$$

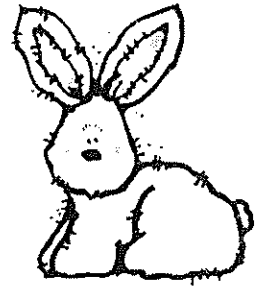


Name: \_\_\_\_\_

# Adding 3-digit numbers

{without regrouping}

Directions: Add the numbers using your place value strategies. 2.NBT.B.7, 3.NBT.A.3



$$\begin{array}{r} 873 \\ + 112 \\ \hline \end{array}$$

$$\begin{array}{r} 137 \\ + 121 \\ \hline \end{array}$$

$$\begin{array}{r} 306 \\ + 182 \\ \hline \end{array}$$

$$\begin{array}{r} 223 \\ + 245 \\ \hline \end{array}$$

$$\begin{array}{r} 168 \\ + 300 \\ \hline \end{array}$$

$$\begin{array}{r} 623 \\ + 334 \\ \hline \end{array}$$

$$\begin{array}{r} 834 \\ + 102 \\ \hline \end{array}$$

$$\begin{array}{r} 553 \\ + 306 \\ \hline \end{array}$$

$$\begin{array}{r} 356 \\ + 423 \\ \hline \end{array}$$

$$\begin{array}{r} 744 \\ + 103 \\ \hline \end{array}$$

$$\begin{array}{r} 460 \\ + 233 \\ \hline \end{array}$$

$$\begin{array}{r} 750 \\ + 225 \\ \hline \end{array}$$

$$\begin{array}{r} 495 \\ + 203 \\ \hline \end{array}$$

$$\begin{array}{r} 576 \\ + 120 \\ \hline \end{array}$$

$$\begin{array}{r} 187 \\ + 302 \\ \hline \end{array}$$

$$\begin{array}{r} 546 \\ + 140 \\ \hline \end{array}$$

$$\begin{array}{r} 328 \\ + 240 \\ \hline \end{array}$$

$$\begin{array}{r} 816 \\ + 143 \\ \hline \end{array}$$

$$\begin{array}{r} 755 \\ + 141 \\ \hline \end{array}$$

$$\begin{array}{r} 804 \\ + 194 \\ \hline \end{array}$$

$$\begin{array}{r} 633 \\ + 262 \\ \hline \end{array}$$

$$\begin{array}{r} 427 \\ + 112 \\ \hline \end{array}$$

$$\begin{array}{r} 509 \\ + 180 \\ \hline \end{array}$$

$$\begin{array}{r} 334 \\ + 562 \\ \hline \end{array}$$

$$\begin{array}{r} 521 \\ + 148 \\ \hline \end{array}$$

$$\begin{array}{r} 709 \\ + 280 \\ \hline \end{array}$$

$$\begin{array}{r} 404 \\ + 393 \\ \hline \end{array}$$

$$\begin{array}{r} 122 \\ + 605 \\ \hline \end{array}$$

$$\begin{array}{r} 201 \\ + 638 \\ \hline \end{array}$$

$$\begin{array}{r} 404 \\ + 264 \\ \hline \end{array}$$

$$\begin{array}{r} 310 \\ + 217 \\ \hline \end{array}$$

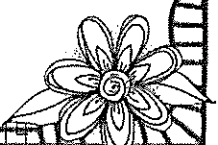
$$\begin{array}{r} 707 \\ + 213 \\ \hline \end{array}$$

$$\begin{array}{r} 633 \\ + 262 \\ \hline \end{array}$$

$$\begin{array}{r} 512 \\ + 386 \\ \hline \end{array}$$

$$\begin{array}{r} 434 \\ + 533 \\ \hline \end{array}$$

$$\begin{array}{r} 353 \\ + 204 \\ \hline \end{array}$$



# Mixed **DOUBLE DIGIT**

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

## Addition & Subtraction

{Without Regrouping}

Directions: Add or subtract. 2.NBT.B.5

$$\begin{array}{r} 32 \\ + 20 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ - 20 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ + 14 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ - 32 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ + 21 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ - 13 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ - 32 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ - 32 \\ \hline \end{array}$$

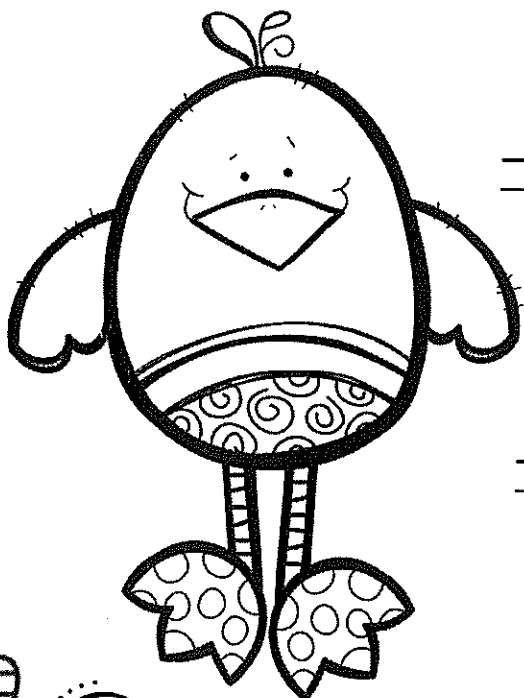
$$\begin{array}{r} 70 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ - 23 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ + 33 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ - 12 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ + 42 \\ \hline \end{array}$$



$$\begin{array}{r} 56 \\ - 15 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ - 32 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ + 54 \\ \hline \end{array}$$

$$\begin{array}{r} 69 \\ - 35 \\ \hline \end{array}$$

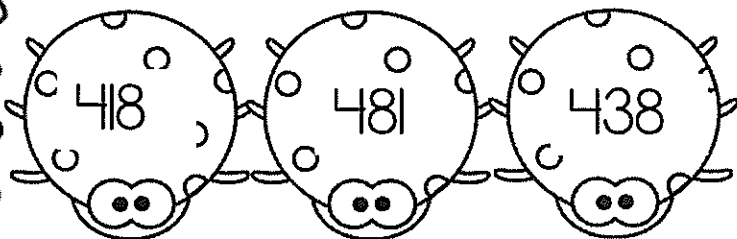
$$\begin{array}{r} 34 \\ + 22 \\ \hline \end{array}$$



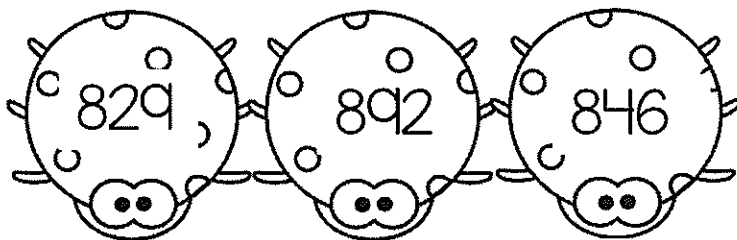
# Number Order

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

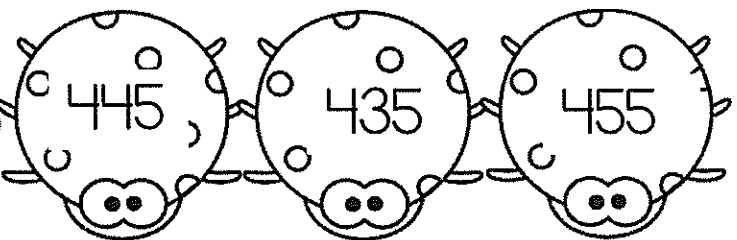
Directions: Put the numbers in order from greatest to least. 2.NBTA.4



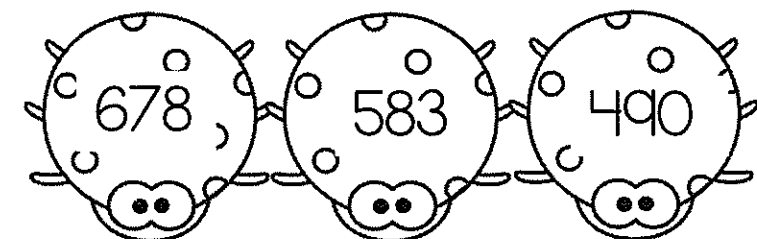
481	438	418
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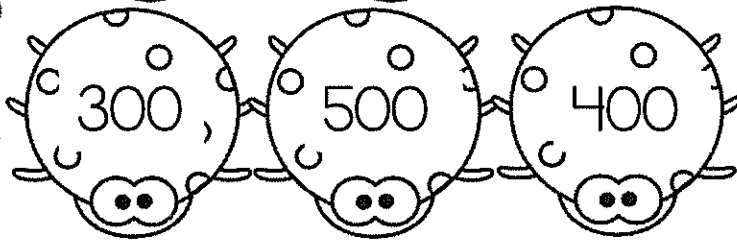
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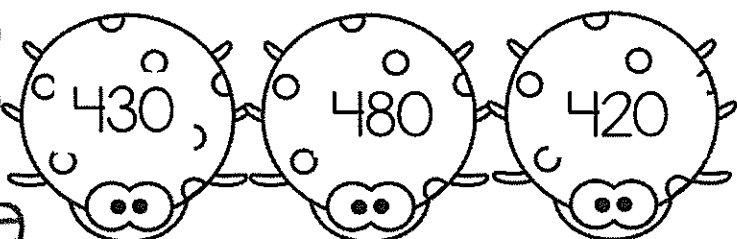
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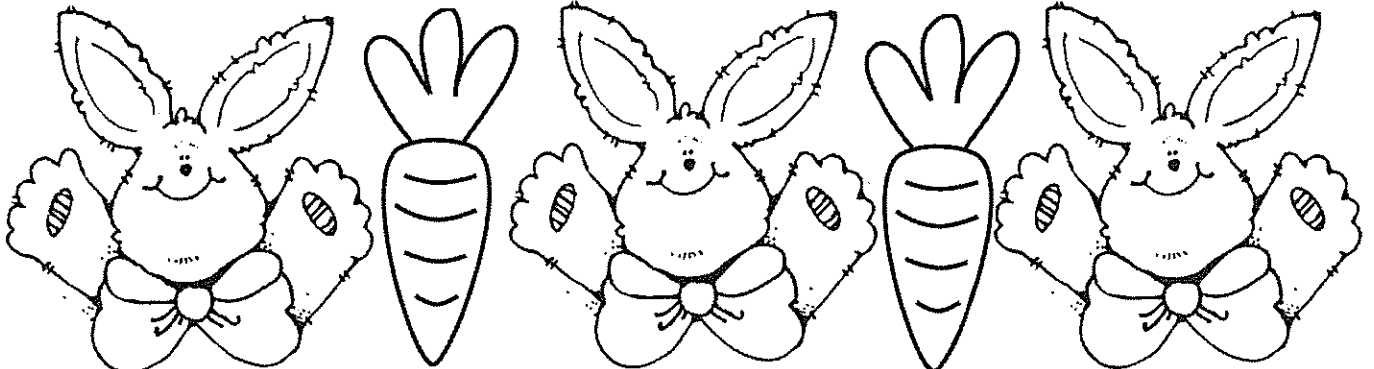


# Skip COUNTING

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

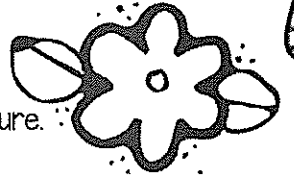
Directions: Skip count by either 5, 10, or 100 and in the skip count pattern.  
2.NBTA.2

310, 315, 320, _____, _____, _____	550, 650, 750, _____, _____, _____
755, 760, 765, _____, _____, _____	35, 30, 25, _____, _____, _____
90, 80, 70 _____, _____, _____	270, 280, 290, _____, _____, _____
500, 600, 700, _____, _____, _____	55, 50, 45, _____, _____, _____
165, 170, 175, _____, _____, _____	900, 800, 700, _____, _____, _____
330, 340, 350, _____, _____, _____	445, 450, 455, _____, _____, _____
230, 225, 220, _____, _____, _____	120, 220, 320, _____, _____, _____
555, 560, 565, _____, _____, _____	390, 395, 400, _____, _____, _____

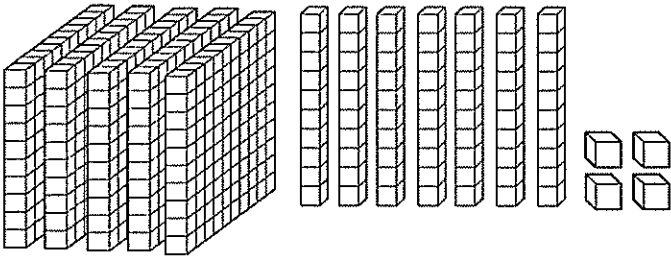


Name: \_\_\_\_\_

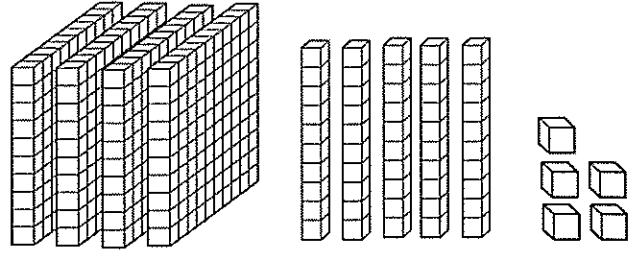
# Base Ten Expanded Form



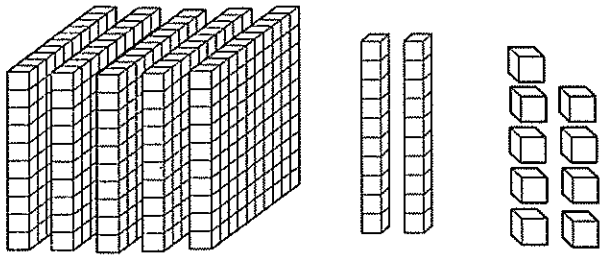
Directions: Write the expanded form, standard form and word form for each picture. ::  
2NBTA.1 & 2NBTA.3



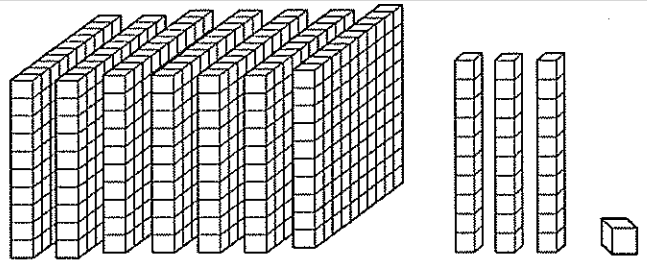
$500 + 70 + 4 = 574$   
Five hundred  
seventy-four



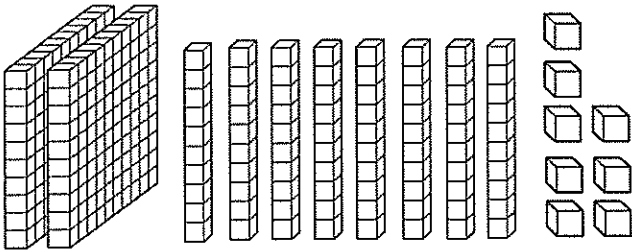
\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



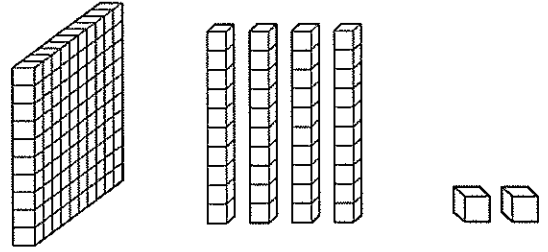
\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

