

Sybil the Scientist

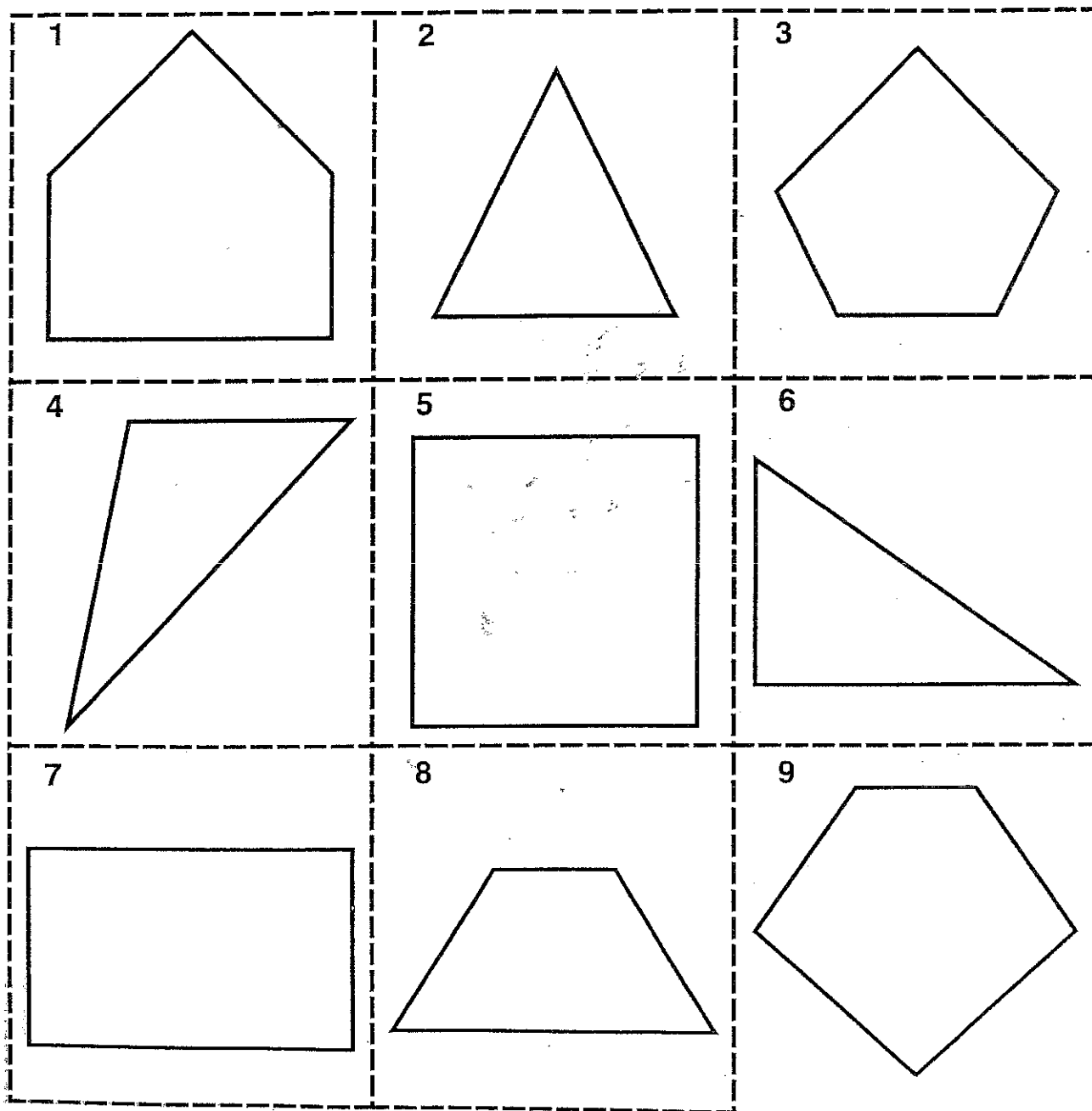
Extension Activities

Activity Name/Number	Point Value
1. Classifying Shapes	10 points
2. Classifications	15 points
3. Under the Big Top	5 points
4. What comes next – A?	5 points
5. What comes next – B?	5 points
6. Trains	5 points
7. Find the differences - picture	10 points
8. Number series - A	10 points
9. Number series - B	10 points
10. Comparing a candle and a light bulb	15 points
11. Letter Series - A	20 points
12. Letter Series - B	20 points
13. Thinking about alike and different – A	20 points
14. Thinking about alike and different – B	5 points
15. Categorize it!	5 points
16. Which one doesn't belong?	5 points
17. Give 'em the boot	5 points
18. More Scientific Pairs - A	15 points
19. More Scientific Pairs - B	15 points
20. Classification	15 points
21. similarities and differences	15 points
22. similarities and differences	15 points

①

Sorting Shapes

Directions: Cut apart the shapes below. Look at how the shapes are similar and how they are different. Then sort the shapes into categories. Create a name for each category to show how all the shapes in that group are alike.

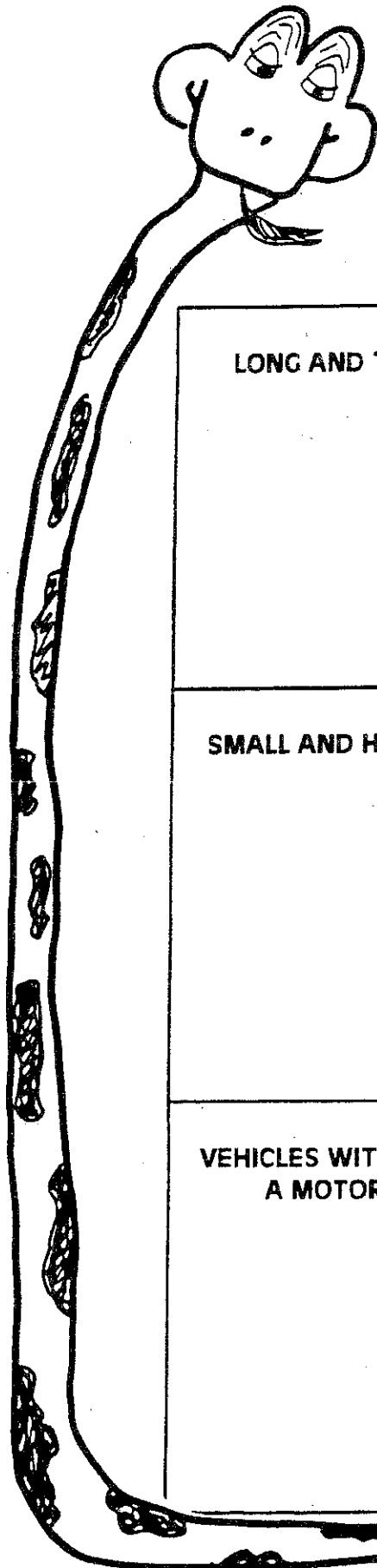


* Ready for another challenge? ☺ Sort the shapes a different way! How many different ways can you classify the shapes given?

Classsssss-ifications

Here are some categories looking for
more than one characteristic.

List as many objects as you can
to fit in each category.



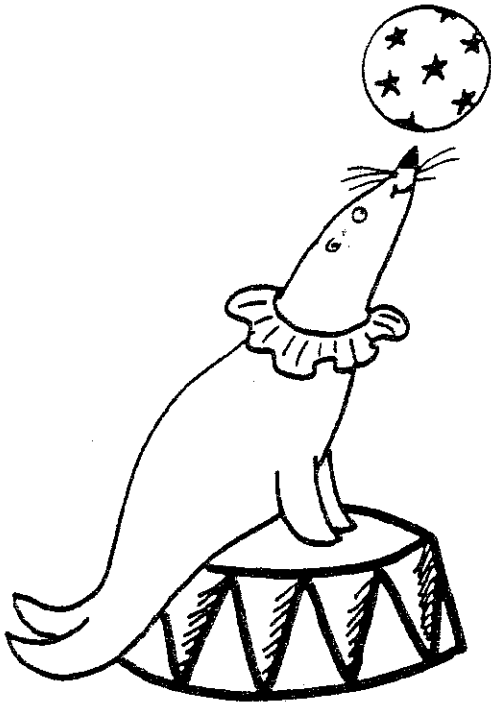
LONG AND THIN	ROUND AND HARD	SOFT AND STICKY
SMALL AND HEAVY	RED AND CAN BE EATEN	FOODS THAT GROW UNDERGROUND
VEHICLES WITHOUT A MOTOR	PLASTIC AND USED IN KITCHEN	ACTIONS DONE WITH LEGS & FEET

15 points

Under the Big Top

How many objects can you think of to classify in the category "CIRCUS"?

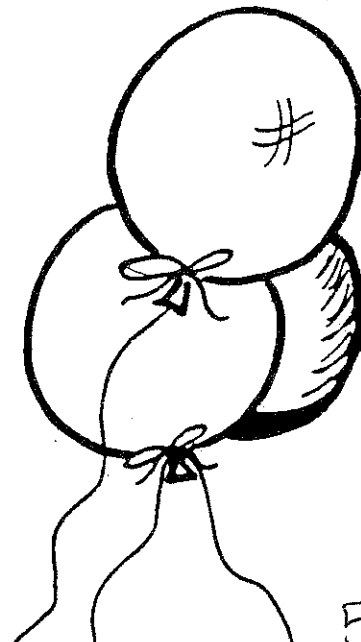
List them below.



Full of Hot Air

Think of as many objects as you can that could be classified as "THINGS FILLED WITH AIR."

List them below.



5 points

What Comes Next?

Draw the next thing in each series.

1.



2.



3.



4.





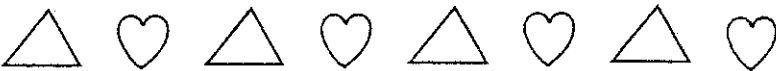


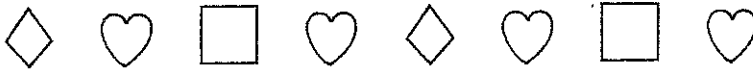
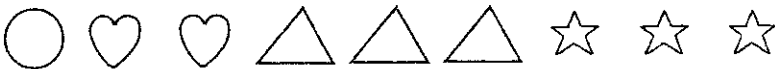



5.



5 points

What Comes Next?

Draw the next thing in each series.

1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

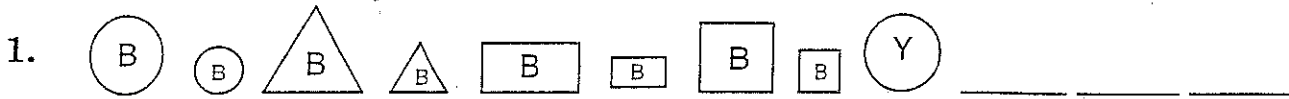
Trains

#6

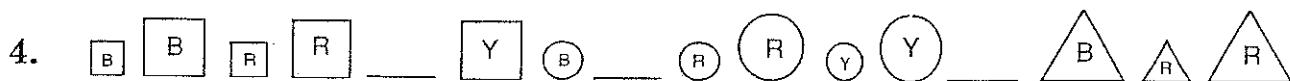
DIRECTIONS: Draw and color or write in the color for the missing pattern blocks in each train.

B = Blue R = Red Y = Yellow

Add three more cars to the train, following the same pattern.



Fill in the blank spaces of the train, following the same pattern.



5 points

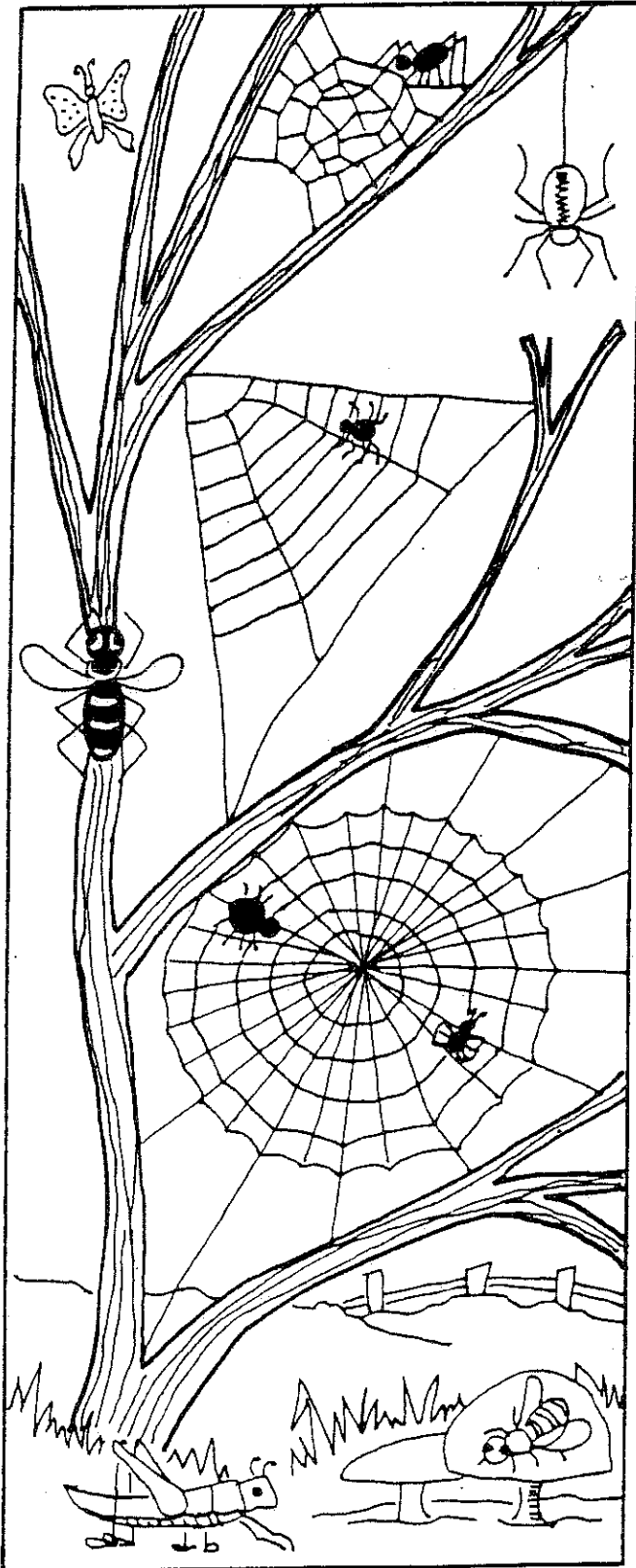
Name _____

#7
SIMILARITIES & DIFFERENCES

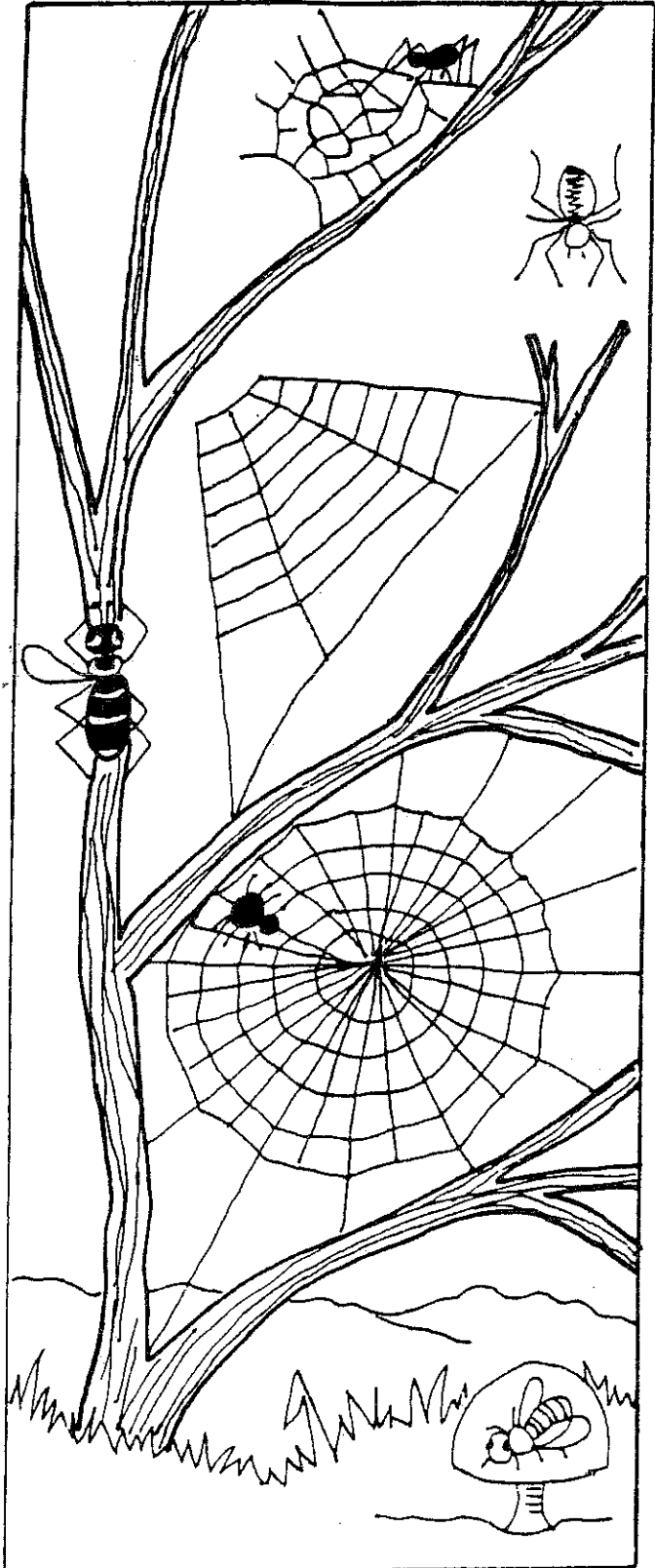
Find at least 10 ways in which
these pictures are different.
Circle each difference.

10 points

A



B



Number Series

Write the next number in each series.

1. 1 2 3 1 2 3 1 2

2. 1 2 2 1 2 2 1 2

3. 1 2 1 2 1 2 1 2

4. 1 1 1 2 2 2 3 3

5. 1 2 3 4 1 2 3 4

6. 1 2 3 2 1 2 3 2

7. 1 2 2 3 3 3 4 4 4

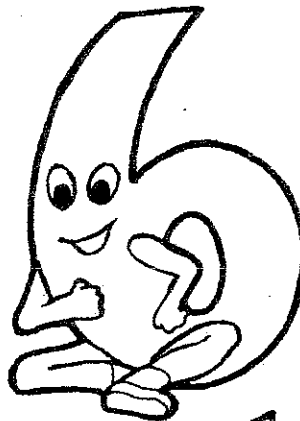
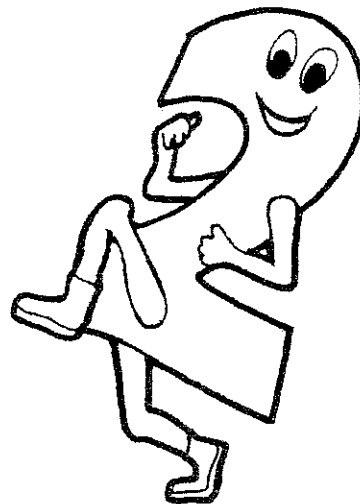
8. 1 1 2 2 1 1 3 3 1

9. 1 1 2 1 1 3 1 1 2

10. 1 5 1 10 1 15 1 20 1

11. 10 9 8 7 6 5 4 3 2

12. 1 2 4 8 16 32

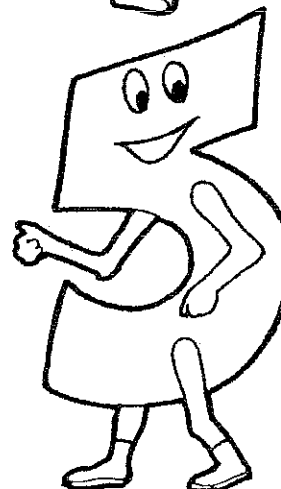
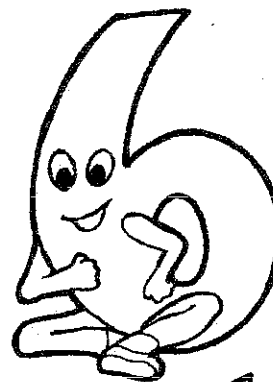
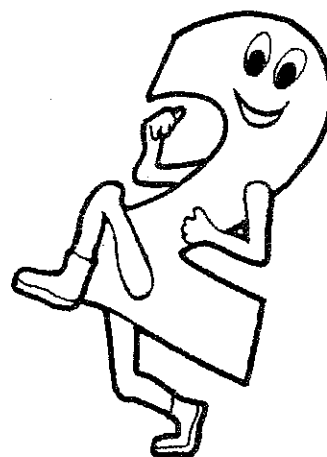


Number Series

#9
10 points

Write the next number in each series.

1. 1 2 3 4 5 6 7 8 _____
2. 2 4 6 8 10 12 14 16 _____
3. 1 3 5 7 9 11 13 15 _____
4. 1 2 3 5 6 7 9 10 _____
5. 1 1 2 2 3 3 4 4 _____
6. 1 9 2 8 3 7 4 6 _____
7. 9 8 7 6 5 4 3 2 _____
8. 5 10 15 20 25 30 35 40 _____
9. 1 4 7 10 13 16 19 22 _____
10. 10 20 30 40 50 60 70 80 _____
11. 18 16 14 12 10 8 6 4 _____
12. 0 1 0 2 0 3 0 4 _____
13. 5 4 3 2 1 5 4 3 _____
14. 3 1 4 5 9 14 23 37 _____
15. 3 6 9 12 9 6 3 6 _____

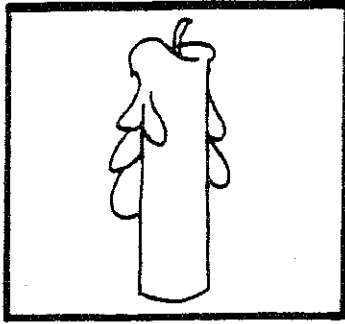


Name _____

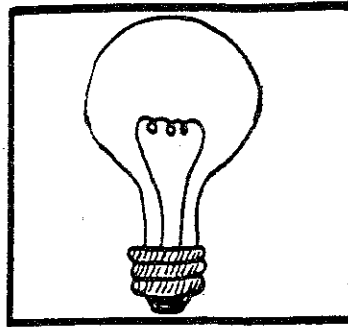
SIMILARITIES & DIFFERENCES

#10

15 points

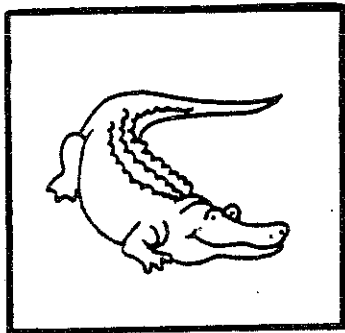


SET A

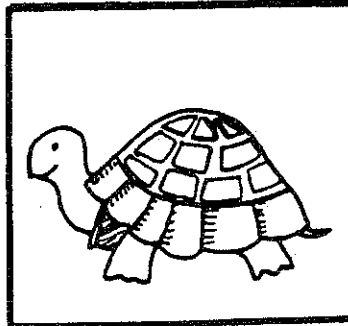


How are these alike? _____

How are they different? _____



SET B



How are these alike? _____

How are they different? _____

Letter Series

Write the next letter in each series.

1. ABCDEFGHIJ _____

2. LMNOPQRSTU _____

3. ZYXWVUTSRQ _____

4. AABBBCCDDEE _____

5. ABACADAEAF _____

6. ABBCCCDDDD _____

7. ABCXYZABCX _____

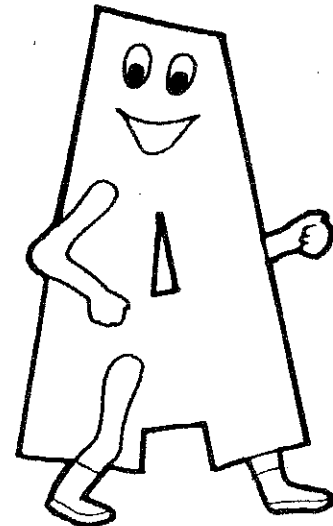
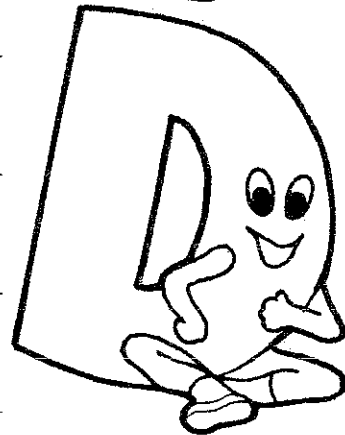
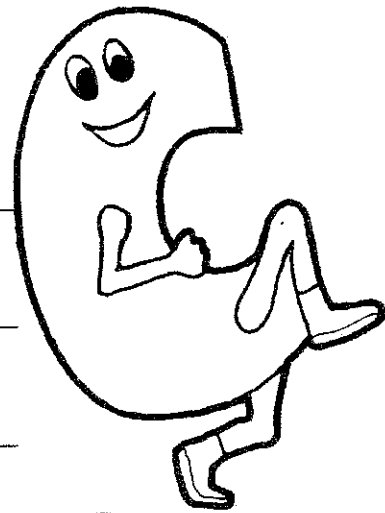
8. AAABCCCDEE _____

9. AEIOUAEIOU _____

10. AAABBBCCCD _____

11. AZZAZZAZZA _____

12. ABCBABCBA _____

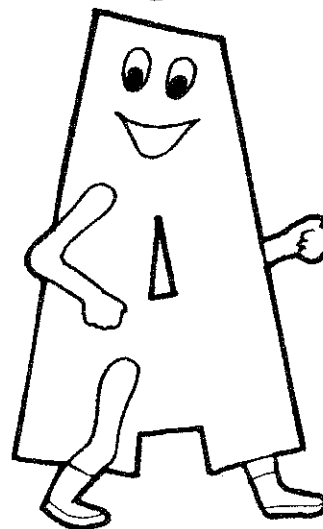
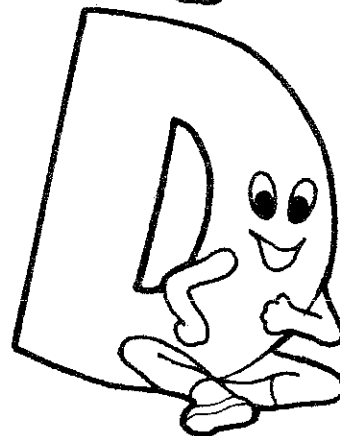
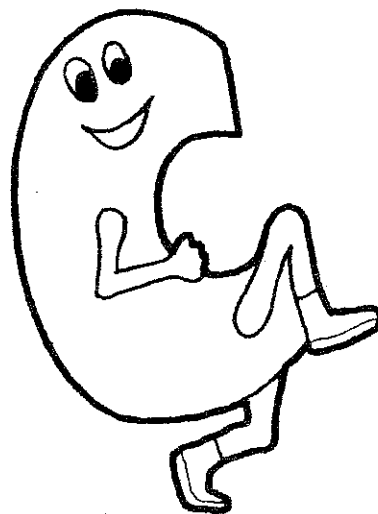


Letter Series

Write the next letter in each series.

1. ABCDEF _____
2. ACEGIK _____
3. BDFHJL _____
4. ZYXWVU _____
5. ZXVTRP _____
6. ADGJMP _____
7. AABBBCC _____
8. ABCDAB _____
9. ABCBAB _____
10. ABBABB _____
11. ZTVZTV _____
12. MQEQMQ _____
13. BDKKDB _____
14. AZBYCX _____
15. AZAYAX _____

Teacher Note: This page is challenging.



Name _____

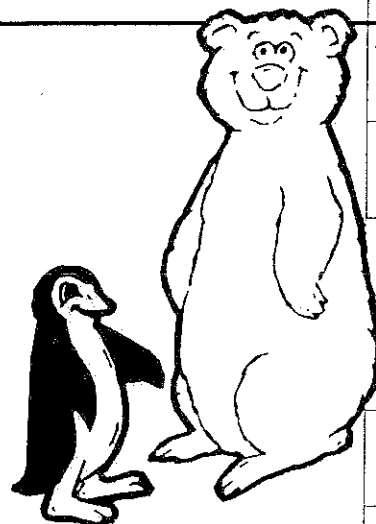
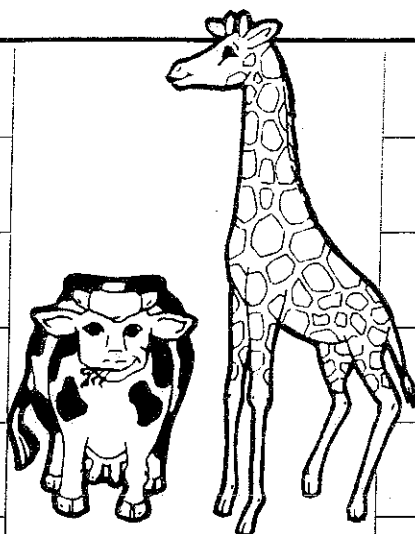


20 points


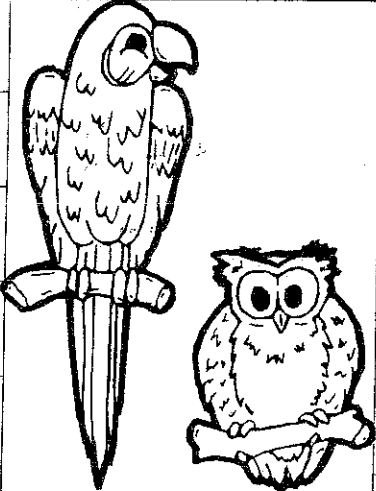
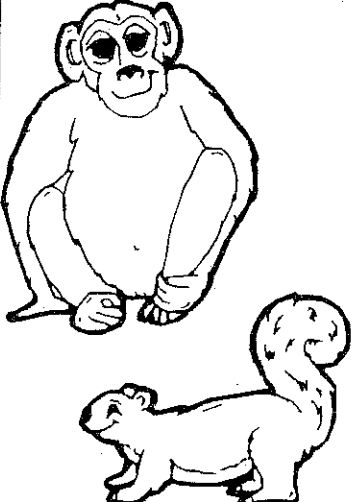
Thinking about Alike and Different

Alike

Different



Thinking about Alike and Different

Alike		Different
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

#15

5 points

The words on each leaf name things that will fit in the same category.
Find the category name in the box below. Write it on the leaf.

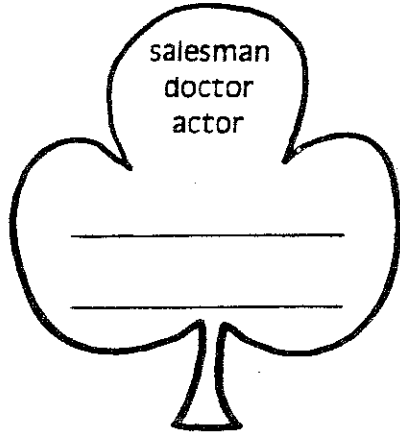
deer
car
moose



jet
crow
bee



salesman
doctor
actor



hammer
drill
pliers



ant
flea
beetle



cheese
sauce
pepperoni



table
chair
bed



firefly
lamp
match



raft
cork
boat



furniture
tools
things that float

jobs
things that fly
parts of pizza

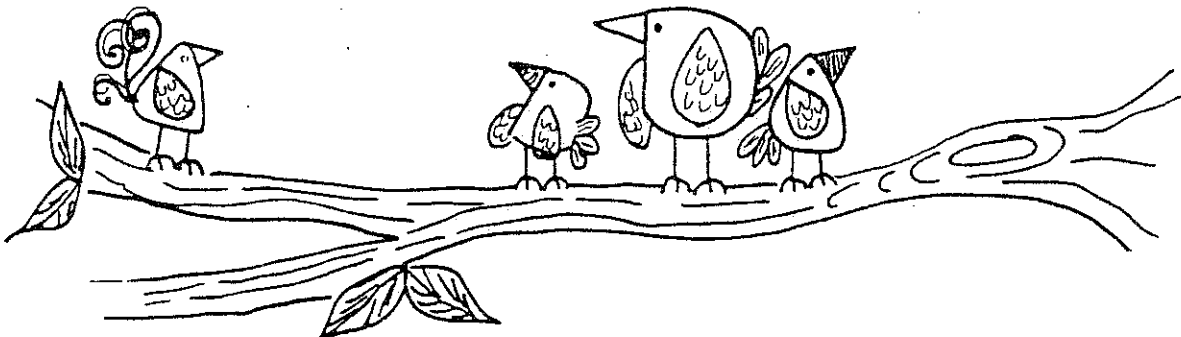
things with horns
insects
things that light

Which One Doesn't Belong?

#16
5 points

Read each row of words carefully. Cross out the one that doesn't fit in a category with the others. On the line, tell why it doesn't fit.

- | | | | | | |
|-----|--------|---------|----------|----------|-------|
| 1. | milk | snow | rain | paste | _____ |
| 2. | kick | grab | hop | jump | _____ |
| 3. | Sunday | Friday | Tuesday | March | _____ |
| 4. | pizza | cookie | cake | pie | _____ |
| 5. | horse | bus | slide | bicycle | _____ |
| 6. | box | plate | sack | barrel | _____ |
| 7. | lizard | ant | bee | cricket | _____ |
| 8. | run | swim | fly | sit | _____ |
| 9. | black | light | green | blue | _____ |
| 10. | raft | canoe | wagon | sailboat | _____ |
| 11. | scream | yell | shout | whisper | _____ |
| 12. | boot | slipper | sandal | shoe | _____ |
| 13. | rose | daisy | tomato | pansy | _____ |
| 14. | bear | wolf | elephant | ostrich | _____ |

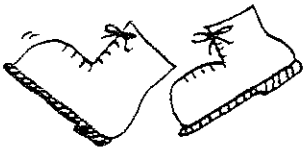


Name _____

CLASSIFICATION

#17

5 points



Give 'em the Boot!

Read each row of words carefully. Cross out the one that doesn't fit in a category with the others. On the line, tell why it doesn't fit.

1. cow tiger pig goat

2. happy cheerful grouchy delighted

3. Jim Jack Jane Joe

4. pants sweater shirt jacket

5. radio book TV movie

6. dog goose chicken ostrich

7. bracelet ring earring belt

8. glass bottle sack cup



More Scientific Pairs

How is a seashell like a tree?

How are they different?

How is a door like friendship?

How are they different?

More Scientific Pairs

How is a rain forest like a circus?

How are they different?

How is a stamp like a good book?

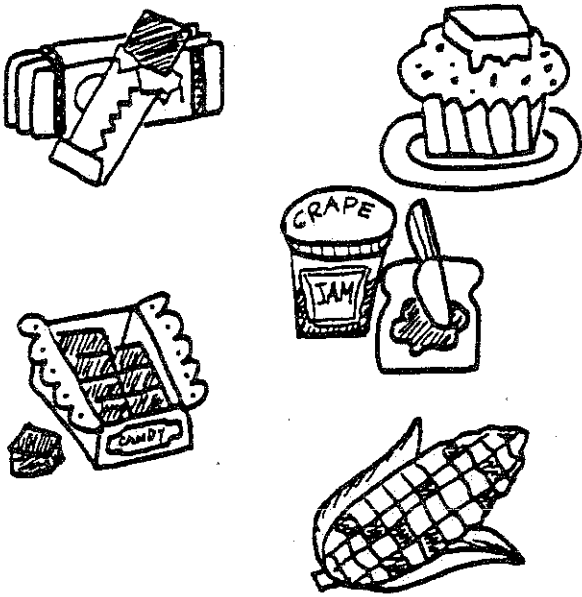
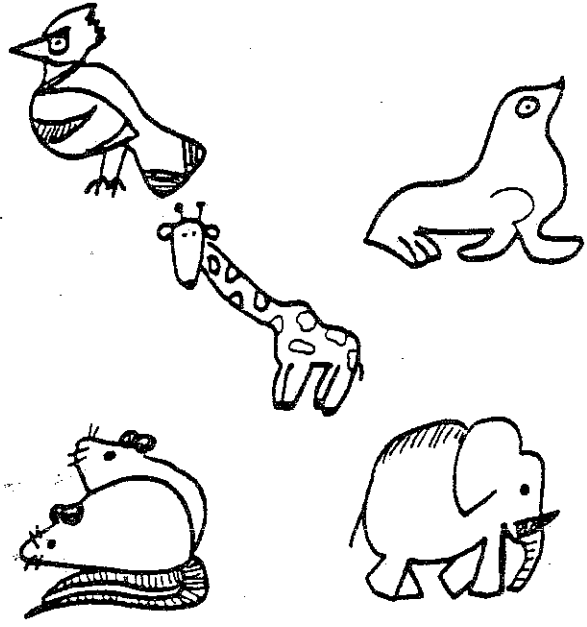
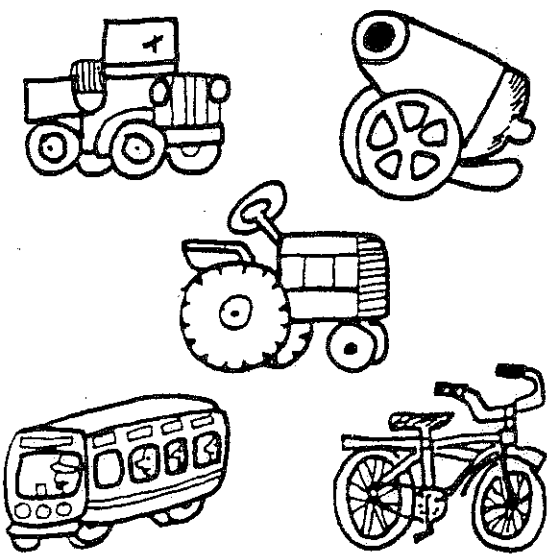
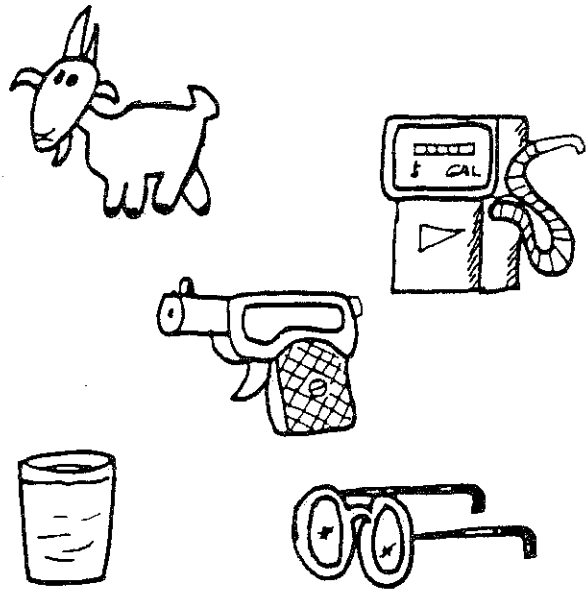
How are they different?

Name _____

#20
CLASSIFICATION
 15 points

In order to be grouped together into one category,
 the objects must share at least one characteristic.

Look at the objects in each category box below.
 How are they alike? Label each category.

<p>Category:</p> 	<p>Category:</p> 
<p>Category:</p> 	<p>Category:</p> 

Name _____

#21
SIMILARITIES & DIFFERENCES
15 points

Find pictures of objects that have at least
one similarity.

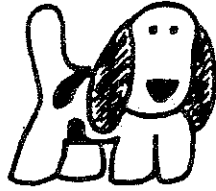
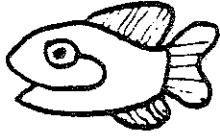
Draw a line connecting them.



Name _____

#22
SIMILARITIES & DIFFERENCES
15 points

Look at the pictures in each box. Write a similarity on the "S" line.
Write a difference on the "D" line.



S _____

D _____



S _____

D _____



S _____

D _____



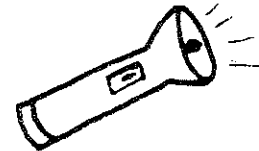
S _____

D _____



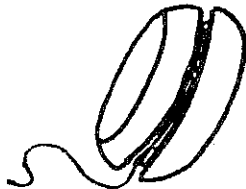
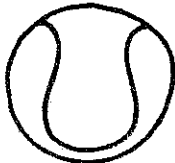
S _____

D _____



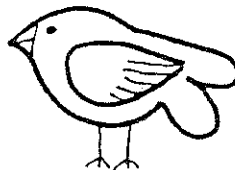
S _____

D _____



S _____

D _____



S _____

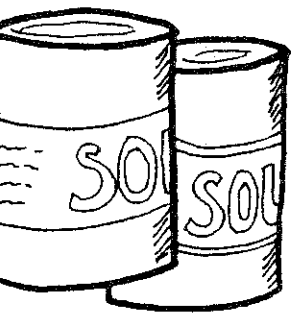
D _____

Name _____

SIMILARITIES & DIFFERENCES

Look at each group of words. Find at least one way they are similar.
Write the similarity on the lines under each group.



<p>hum talk</p> <p>whistle sing</p> <p>_____</p> <p>_____</p>	<p>ball jar lid</p> <p>marble plate</p> <p>_____</p> <p>_____</p>
<p>leap skip</p> <p>jump hop</p> <p>_____</p> <p>_____</p>	<p>sour spicy</p> <p>sweet salty</p> <p>_____</p> <p>_____</p>
<p>happy cheery</p> <p>smiling pleasant</p> <p>_____</p> <p>_____</p>	<p>leopard lion</p> <p>tiger cheetah</p> <p>_____</p> <p>_____</p>
<p>cabin tent</p> <p>house castle</p> <p>_____</p> <p>_____</p>	<p>knee foot</p> <p>hip ankle</p> <p>_____</p> <p>_____</p>
	<p>chicken noodle</p> <p>tomato onion</p> <p>vegetable</p> <p>_____</p> <p>_____</p>
	<p>book comic</p> <p>newspaper</p> <p>magazine</p> <p>_____</p> <p>_____</p>