Name_____

1 min	=	60 sec
1 hr	=	60 min
1 month	=	28–31 days
1 year	=	12 months
1 decade	=	10 years
1 century	=	100 years

World's sleepiest animal

1. A koala sleeps about 20 hr each day. How many hours does it sleep in the month of June?

_____

World's Number 1 milk drinking country

2. Each person in Ireland drinks about 700 c of milk each year. How many cups would each person drink in 5 decades?

_____

World's fastest orbiting planet

3. Mercury orbits the sun in 88 days. The planet travels about 30 mi in 1 sec. How far does the planet travel in 1 min?

_____

World's busiest airport

4. Hartsfield Atlanta International Airport in Georgia has about 2,000 airplanes depart and arrive each day. How many times do planes land and take off in April?

_____

World's coldest populated place

5. Norilsk is a small city in central Russia. The average temperature is 12.4°F. The city has 5 months without sunlight each year. How many months without sunlight occur in 1 century?

_____

World's heaviest land mammal

6. The African elephant weighs about 14,000 lb. It eats about 50,000 lb of twigs, foliage, grasses, and fruit in 3 months. How many pounds of food does it eat in 1 year?

_____

Vacation Estimation

Mileage Between Cities

	Miami	New York City	Pittsburgh	Washington, D.C.
Miami	—	1,328	1,250	1,101
New York City	1,328	—	386	229
Pittsburgh	1,250	386	—	241
Washington, D.C.	1,101	229	241	—

It is 9:00 A.M. Your family vacation starts in New York City with a final destination in Miami, Florida. You travel 58 mi every hour if you do not stop for meals or attractions. You first head to Washington, D.C.

1. You must stop for a 1 hr lunch at noon. Use rounding to estimate how many miles you have traveled by noon.

_____

2. Estimate how far away you are from Washington, D.C.

_____

3. You arrive in Washington, D.C. You do some sightseeing, and at 5:00 P.M. you continue your trip and drive until 7:00 P.M. You stop for dinner and rest for the evening. Estimate how many miles you have driven for the day.

_____

4. Your family starts the second day at 9:00 A.M. and drives until 8:00 P.M. During that time, you stopped for 2 hr. Estimate how far you traveled for the day.

_____

5. Estimate how far you are from Miami.

_____

6. On the third day, about what time must you leave in the morning to get to Miami around 5:00 P.M.? Remember, you will stop for a 1 hr lunch.
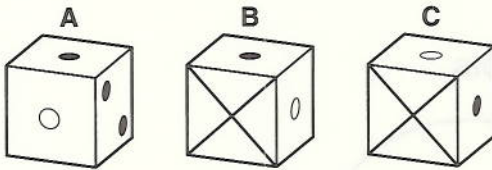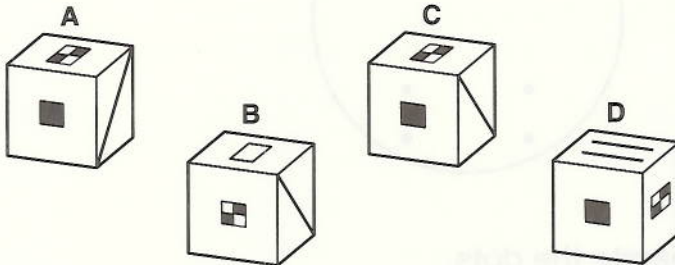
_____

Crazy Cubes

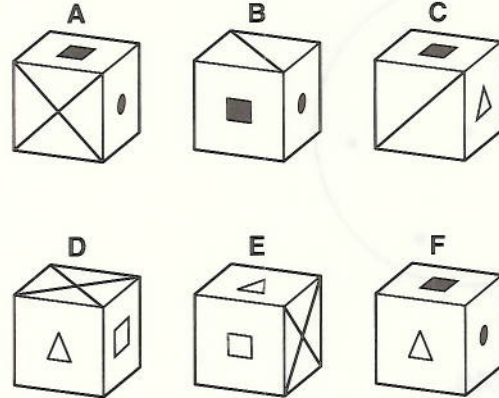Write the letter of the cube that is not the same as the others in the group.

1.   A   B   C

2.   A   C

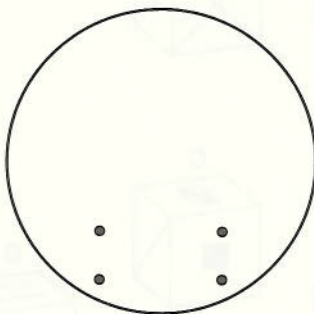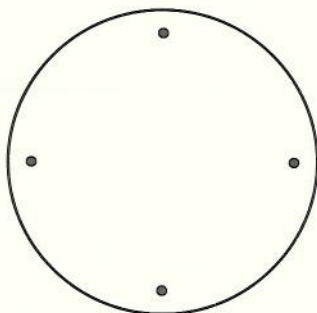   B   D

3.   A   B   C

     D   E   F

4.   A   B   C

     D   E   F
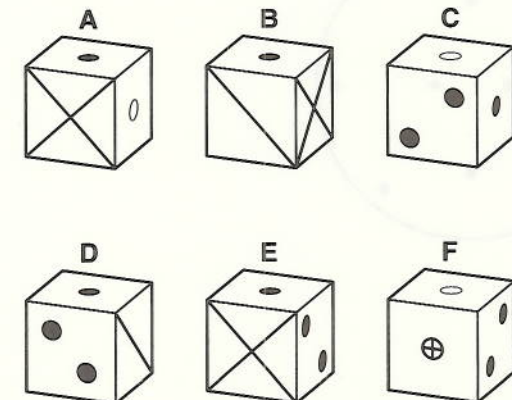
Name_____

Separate the Dots
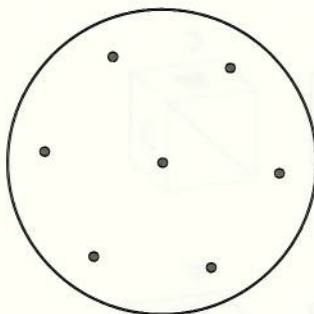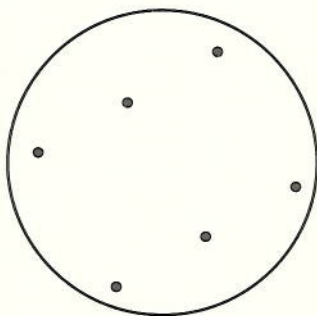
Draw line segments inside each circle so that each dot is in a separate area. The 2 ends of each line segment must touch the circle.
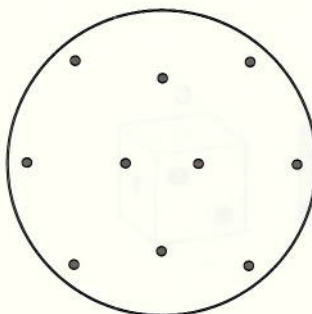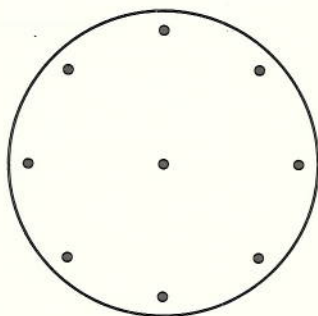
1. Draw 2 line segments to separate the dots.

2. Draw 3 line segments to separate the dots.

3. Draw 4 line segments to separate the dots.

Name_____

Food for Thought

You work at a pet shop. One of your jobs is to feed all the animals. Answer the questions below.

First thing in the morning you feed the fish. The 12 fish tanks have 26 large fish. You can choose between two kinds of pellets.

Daily Feeding Chart

Fish	10 super pellets each or 21 mini pellets each
Puppies	16 oz dry food each or 14 oz wet food each

1. Which kind of pellets do you choose? Estimate the number of pellets you need. Explain your method.

_____

_____

_____

2. What is the exact amount?

_____

_____

You feed the puppies next. There are 10 cages of large-breed puppies. Each cage can hold 3 puppies, but 2 of the cages only have 2 puppies each. You need to decide which food to give the puppies.

3. What kind of puppy food do you choose? Estimate the amount of puppy food you need. Explain your method.

_____

_____

4. What is the exact amount?

_____

_____

Name_____

Treasure!

Benjamin is a treasure hunter. He and his crew recently found
the treasure of a sunken ship from the past. The chests
contained gold, silver, and jewels.

Treasure Found

Type of Chest	Weight of Each Chest	Number of Each Chest
Gold	178 lb	58
Silver	153 lb	53
Jewels	123 lb	29

Benjamin's ship can carry a maximum weight of 10,000 lb
without sinking.

1. What is the total weight of the gold chests? _____

2. What is the total weight of the silver chests? _____

3. What is the total weight of the jewel chests? _____

4. How many trips does Benjamin need to take to carry all of
   the chests to shore? How do you know?

   _____

   _____

   _____

5. Suppose Benjamin only carries gold chests on his last trip.
   If Benjamin carried full loads on the first two trips, about
   how many gold chests will he carry on the last trip?

   _____

   _____

   _____

Name_____

The Skateboard Business

Dave is interested in the skateboard business. He found out the following information about some companies that produce skateboards.

Skateboard Manufacturers

Manufacturers	Daily Production	Days of Operation
Big Z Skateboards	4,240	Tuesday through Saturday
California Super Boards	3,892	Closed on Sundays
Rocket Rides	3,725	Open every day of the year
Wonder Wheels	5,000	Monday through Thursday

Solve the problems below using mental math, paper and pencil, or calculator. Tell which method you used.

1. Which company manufactures the most skateboards in 2 days? How many skateboards does that company make?

_____

_____

2. Starting on Monday, which company will make more skateboards in 5 days, Big Z or California Super Boards? Write the total number each company will make.

_____

_____

_____

3. Starting on Friday, which company will make the most skateboards in 10 days? Write the total number all of the companies will make.

_____

_____

_____

Name_____

Bogus Bucks

Rosa deciphers codes. A bank has hired her to crack the codes on 7 safes. The codes also tell the amount of money in each safe.
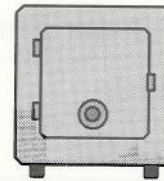
Decipher the codes using the following information:

A = 1, B = 2, C = 3, and so on.

Use the clues below to find out how much money is in each safe. Write each amount on the correct safe.
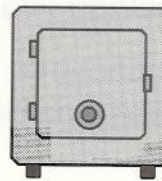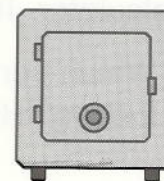
Clue 1: $0.80 × BC is on top

Clue 2: $2.10 × FA is below left of $0.80 × BC

Clue 3: $3.45 × AG is right and 2 above $6.09 × H

Clue 4: $4.61 × BI is above and left of $1.78 × DE

Clue 5: $5.55 × CC is right and above $6.09 × H
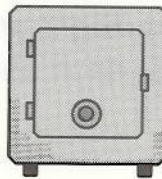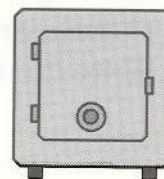
Clue 6: $6.09 × H is 2 safes below $2.10 × FA

Clue 7: $1.78 × DE is below and right of $4.61 × BI

1.

2.   3.

4.   5.

6.   7.
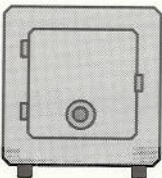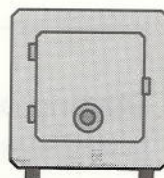
Fun For Eight, Eight For Fun

The Amazing Zellmar calls you up to the stage.

- He wants you to think of a number between 1 and 20.

- He tells you to multiply the number by 2.

- Now add 8 to the number.

- Amazing Zellmar says to divide or split the result in half.

- He tells you to subtract the original number from your answer.

- Now he says to take that number and multiply it by 111.

- Finally, he tells you to take your answer and multiply it by 11.

1. Zellmar says to look at the title of this page. How does it relate to the answer to the problem you just did?

_____

_____
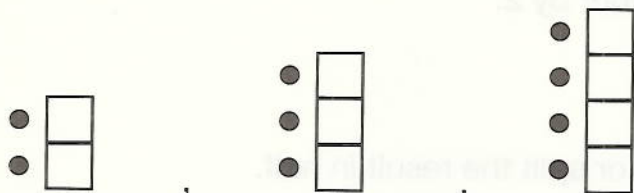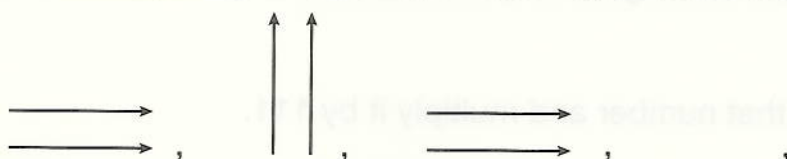
_____

2. Why do you think everyone got the same answer?

_____

_____

_____

_____

Next?

Draw the next two shapes to continue the pattern.

1.

2.

3.

4. W° , W⌐° , W⌐W , ____ , ____

5.

6.