

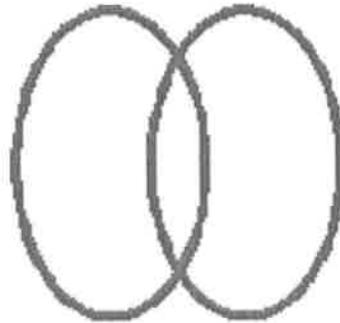
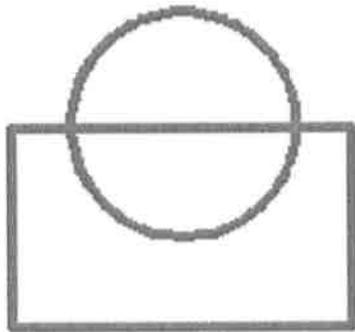
Name: _____

Math Madness Packet Grade 1

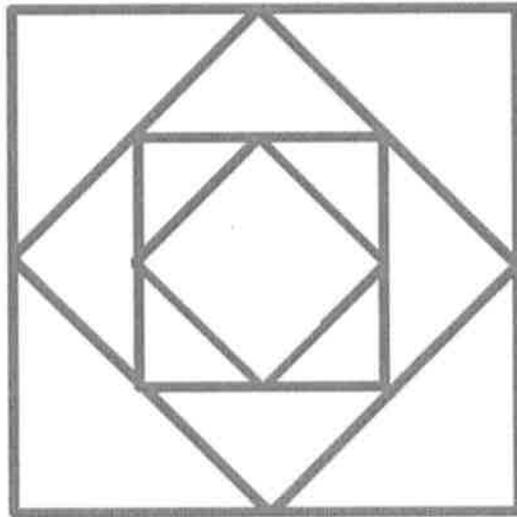
1) Mary lives in an apartment building. There are 3 levels above her and 2 levels below her. How many levels are there in the building?



2) Draw the following shapes in one stroke without lifting the pencil and without retracing the same line.



3) How many squares and triangles are there in the following drawing?



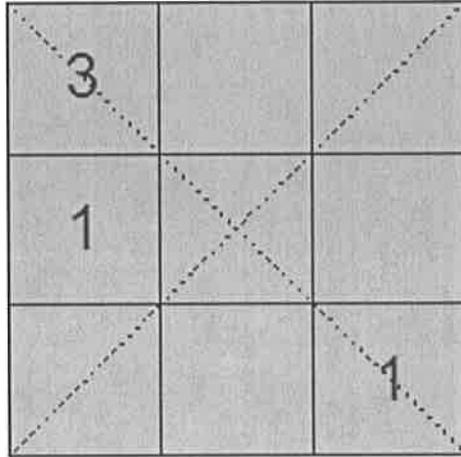
4) Find 3 different ways to fill in the blanks. Do not use zeros.

$$6 = _ + _ + _$$

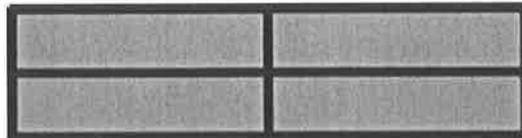
$$6 = _ + _ + _$$

$$6 = _ + _ + _$$

5) Fill the 9 squares with numbers 1, 2, and 3 so that the sum of 3 numbers in all rows, columns and diagonals are the same.



6) How many rectangles do you see?



7) Fill in the blanks

$$10 - \underline{\quad} = 5$$

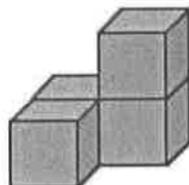
$$12 - \underline{\quad} = 7$$

$$16 - \underline{\quad} = 9$$

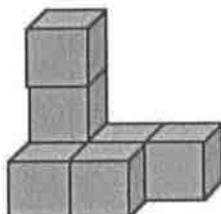
$$\underline{\quad} - 7 = 11$$

$$\underline{\quad} - 5 = 17$$

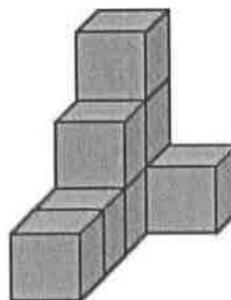
8) How many blocks are there in each stack?



a

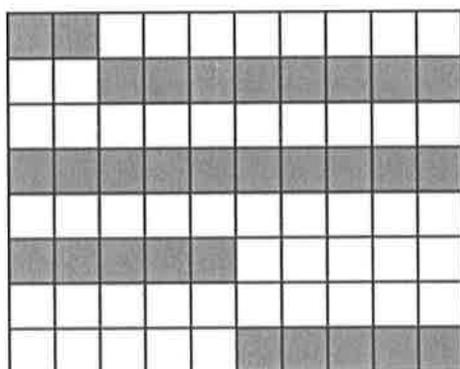


b



c

9) How many red squares are there? Can you find a fast way to count and add them?





1 Kris likes caps! He wears caps to school. He wears caps to the park. He wears caps everywhere he goes. Today he found one more cap to wear.

It covers his ears.

It has two buttons on it.

One of the buttons shows a picture of an animal.

Which cap did Kris find today?

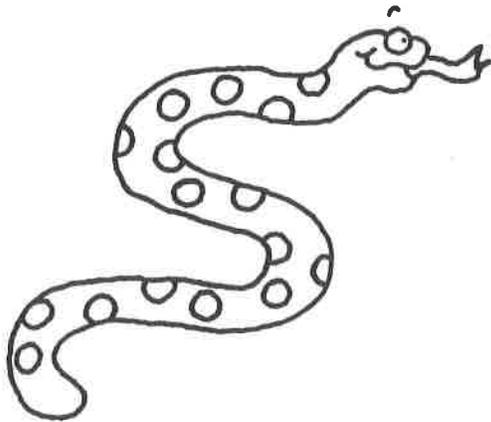
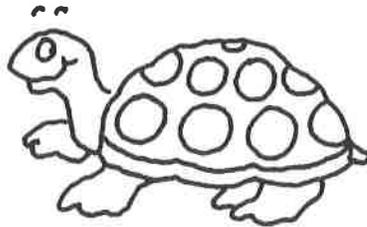
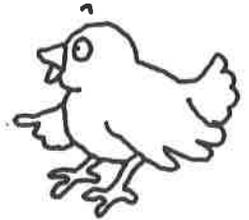
Draw a ring around the cap.





- 2** Rita has 5 pets. She has a bird, a turtle, a cat, a snake, and a hamster. She took her pets to a pet fair. One of them won first prize. She didn't say which one, but she gave some hints.
- It is spotted.
 - It has four legs.
 - It is furry.
- Which one of Rita's pets won first prize?
-

Draw a ring around the animal.



**3**

Angie showed Fred a picture of Ginger, Jean, Melody, Emma, and Doris. Fred looked at the picture of the five girls and asked Angie which girl was her sister. Angie said,

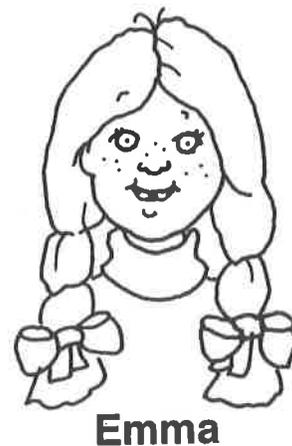
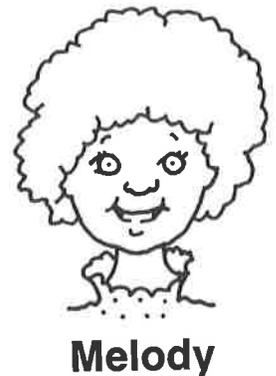
“She has freckles.

She has long hair and it’s in pigtails.

She has teeth missing.”

Which girl is Angie’s sister?

Write the girl’s name. _____



Answer Key

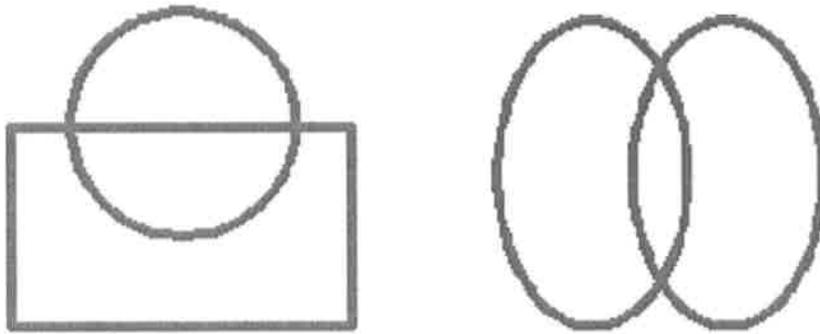
1) Mary lives in an apartment building. There are 3 levels above her and 2 levels below her. How many levels are there in the building?



Answer

$$3 + 1 + 2 = 6 \text{ levels}$$

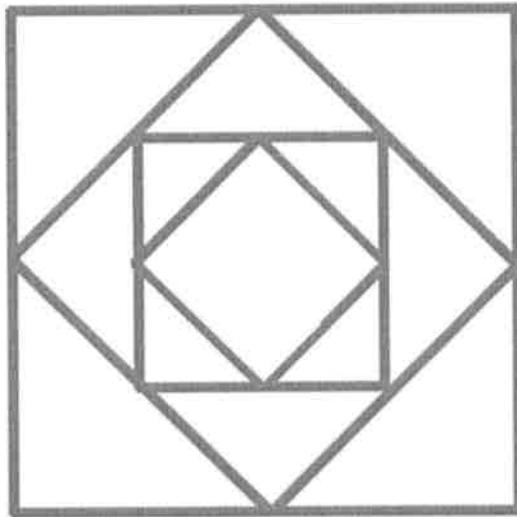
2) Draw the following shapes in one stroke without lifting the pencil and without retracing the same line.



Answer

Start from any of the 2 intersections and you can do it.

3) How many squares and triangles are there in the following drawing?



Answers

4 squares, 12 triangles

4) Find 3 different ways to fill in the blanks. Do not use zeros.

$$6 = _ + _ + _$$

$$6 = _ + _ + _$$

$$6 = _ + _ + _$$

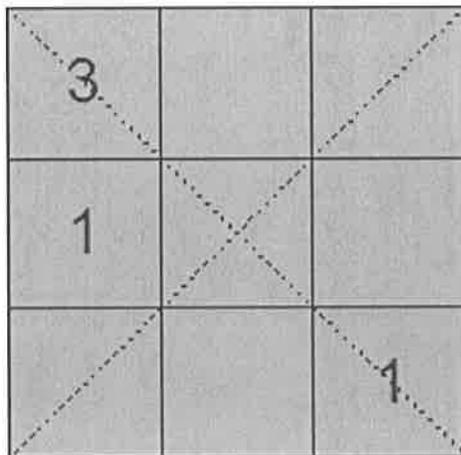
Answers

$$6 = 1 + 1 + 4$$

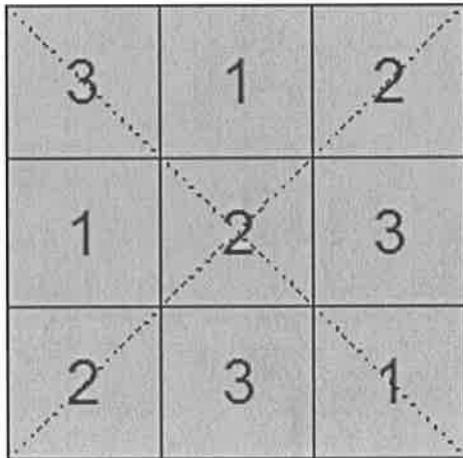
$$6 = 1 + 2 + 3$$

$$6 = 2 + 2 + 2$$

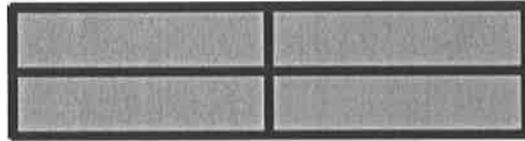
5) Fill the 9 squares with numbers 1, 2, and 3 so that the sum of 3 numbers in all rows, columns and diagonals are the same.



Answer



6) How many rectangles do you see?



Answer

9

7) Fill in the blanks

$$10 - \underline{\quad} = 5$$

$$12 - \underline{\quad} = 7$$

$$16 - \underline{\quad} = 9$$

$$\underline{\quad} - 7 = 11$$

$$\underline{\quad} - 5 = 17$$

Answers

$$10 - 5 = 5$$

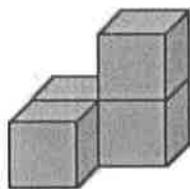
$$12 - 5 = 7$$

$$16 - 7 = 9$$

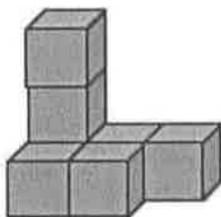
$$18 - 7 = 11$$

$$22 - 5 = 17$$

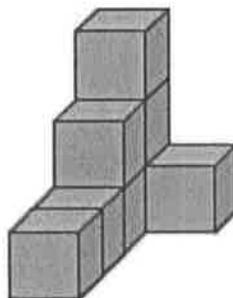
8) How many blocks are there in each stack?



a



b

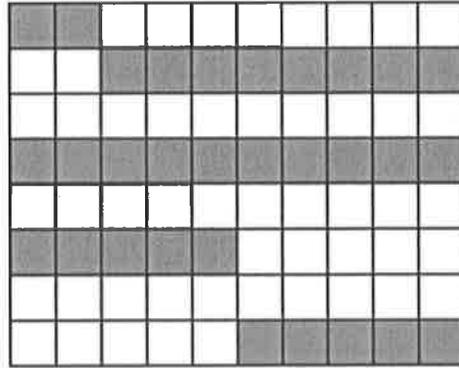


c

Answers

a) 4, b) 7, c) 8

9) How many red squares are there? Can you find a fast way to count and add them?



Answer

$$10 + 10 + 10 = 30$$



- 1** Kris likes caps! He wears caps to school. He wears caps to the park. He wears caps everywhere he goes. Today he found one more cap to wear.
 It covers his ears.
 It has two buttons on it.
 One of the buttons shows a picture of an animal.
 Which cap did Kris find today?

FIND OUT

- What does Kris like to wear? *Caps*
- What did he find today? *One more cap to wear*
- What do you know about the cap he found? *It covers his ears; it has two buttons on it; one of the buttons shows a picture of an animal.*
- What is a button? (Children may describe the buttons sewn on their clothes. Point out that there is another kind of button that people pin on their clothes. This is the kind of button that is on the hat Kris found.)
- What question do you have to answer to solve the problem? *Which cap did Kris find today?*

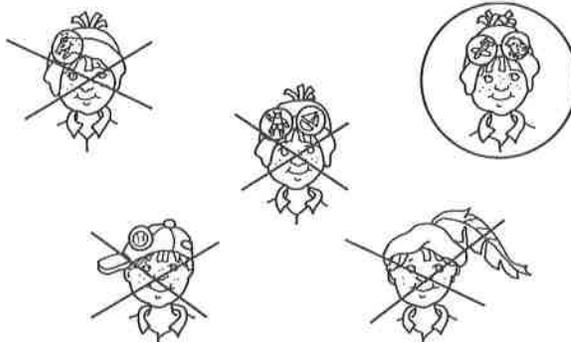
CHOOSE A STRATEGY

- Does the problem show you exactly which cap Kris found today? *No* Does it give you some clues or hints about the cap? *Yes*
- The little picture at the top of your paper means that you can use a special kind of thinking to solve this problem. It is called "logical reasoning." We'll use this kind of thinking and the clues to help us solve the cap mystery. We'll use the pictures on your paper, too.

SOLVE IT

- Let's try the first clue as you look at the pictures: It covers his ears. Which cap could it be? How many caps cover Kris' ears? *3* How many caps do not cover Kris' ears? *2* Cross out the two caps that do not cover his ears.
- Let's try the second clue: It has two buttons on it. Can it be the cap with the crocodile button on it? *No* Why? *It has only one button on it.* Cross it out. Can it be the cap with the frog button and the airplane button on it? *Yes* Can it be the cap with the robot button and boat button on it? *Yes* Can it be the cap with the feather on it? *No, it has been crossed out already.*
- Let's try the third clue: One of the buttons shows a picture of an animal. Look at the two caps that are not crossed out. Do both caps have buttons on them? *Yes* What pictures do the buttons show? *The buttons on one cap show a frog and an airplane. The buttons on the other cap show a robot and a boat.* Could it be the cap with the frog button on it? *Yes* Why? *Because a frog is an animal.* Could it be the cap with the robot button on it? *No* Why? *Because both buttons show pictures of things that are not animals.* Cross out the cap with the robot button on it. Which cap did Kris find today? *The cap with the frog button and airplane button on it.* How must you show the answer? *Draw a ring around the cap.*

Solution:

**LOOK BACK**

- Let's look back at the problem to see if your answer fits with what the problem tells you and asks you to find. Listen to the problem again. (Read the problem.) Does your answer fit?

EXTEND IT

- What would the answer be if the third clue told you the buttons did not show pictures of animals?



2

Rita has 5 pets. She has a bird, a turtle, a cat, a snake, and a hamster. She took her pets to a pet fair. One of them won first prize. She didn't say which one, but she gave some hints.

It is spotted.

It has four legs.

It is furry.

Which one of Rita's pets won first prize?

FIND OUT

- How many pets does Rita have? *5* What are they? *A bird, a turtle, a cat, a snake, and a hamster*
- Where did Rita take her pets? *To a pet fair* What happened at the fair? *One of her pets won first prize.*
- What do you know about the pet that won first prize? *It is spotted; it has 4 legs; it is furry.*
- What question do you have to answer to solve the problem? *Which one of Rita's pets won first prize?*

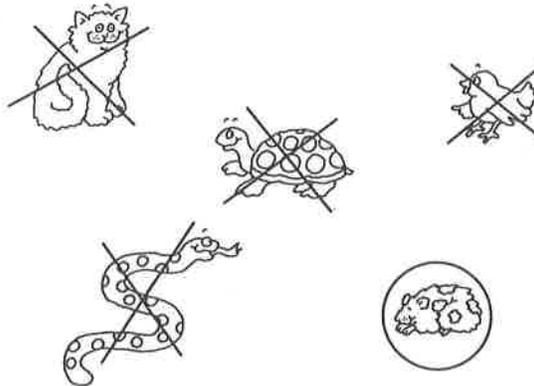
CHOOSE A STRATEGY

- Does the problem tell you exactly which pet won first prize? *No* Does it give you some hints about the animal that won first prize? *Yes*
- The little picture at the top of your paper means that we can use a special kind of thinking to solve this problem. It is called "logical reasoning." We'll use this kind of thinking and the clues to help us solve the pet mystery. We'll use the pictures on your paper, too.

SOLVE IT

- Let's read the clues one at a time to solve the mystery. The first clue is: It is spotted. Which pet could it be? The bird? *No* Cross out the bird. The hamster? *Yes* The turtle? *Yes* The snake? *Yes* The cat? *No* Cross out the cat.
- Let's try the second clue: It has 4 legs. Could it be the hamster? *Yes* The turtle? *Yes* The snake? *No* Cross out the snake.
- Let's try the third clue: It is furry. Could it be the hamster? *Yes* Could it be the turtle? *No* Cross out the turtle. Which pet won first prize? *The hamster* How must you show the answer? *Draw a ring around it.*

Solution:



LOOK BACK

- Let's look back at the problem to see if your answer fits with what the problem tells you and asks you to find. Listen to the problem again. Be sure to see that your answer fits with every one of the three clues. (Read the problem.) Does your answer fit?

EXTEND IT

- What would the answer be if the first clue told you that the pet was not spotted?

**3**

Angie showed Fred a picture of Ginger, Jean, Melody, Emma, and Doris. Fred looked at the picture of the five girls and asked Angie which girl was her sister. Angie said,

“She has freckles.

She has long hair and it’s in pigtails.

She has teeth missing.”

Which girl is Angie’s sister?

- FIND OUT**
- What did Angie show Fred? *A picture of five girls* What were their names? *Ginger, Jean, Melody, Emma, and Doris*
 - What did Fred ask Angie? *Which girl was Angie’s sister*
 - What do you know about Angie’s sister? *She has freckles; she has long hair and it’s in pigtails; she has teeth missing.*
 - What question do you have to answer to solve the problem? *Which girl is Angie’s sister?*

CHOOSE A STRATEGY

- Does the problem tell you the name of Angie’s sister? *No* Does it tell you exactly which picture shows Angie’s sister? *No* Does it give you some clues or hints about her sister? *Yes*
- What does the little picture at the top of your paper mean? *It means that we can use a special kind of thinking to solve this problem.* What else will help you solve the problem? *The clues and the pictures*

SOLVE IT

- Let’s try the first clue as you look at the pictures: She has freckles. Could she be Ginger? *Yes* Could she be Jean? *No* Why? *She doesn’t have freckles.* Cross out Jean. Could she be Melody? *No* Cross out Melody. Could she be Emma? *Yes* Could she be Doris? *Yes*
- Let’s try the second clue: She has long hair and it’s in pigtails. Could she be Ginger? *Yes* Could she be Emma? *Yes* Could she be Doris? *No, because she has short hair.* Cross out Doris. Which girls are not crossed out? *Ginger and Emma*
- Let’s try the third clue: She has teeth missing. Look at the two girls who are not crossed out. Do both of them have teeth missing? *No, Ginger doesn’t have teeth missing.* Cross out Ginger. Which girl is Angie’s sister? *Emma* How must you show the answer? *Write the girl’s name.*

Solution: Emma

LOOK BACK

- Let’s look back at the problem to see if your answer fits with what the problem tells you and asks you to find. Listen to the problem again. (Read the problem.) Does your answer fit?

PRACTICE

- Similar Practice Problem: 55