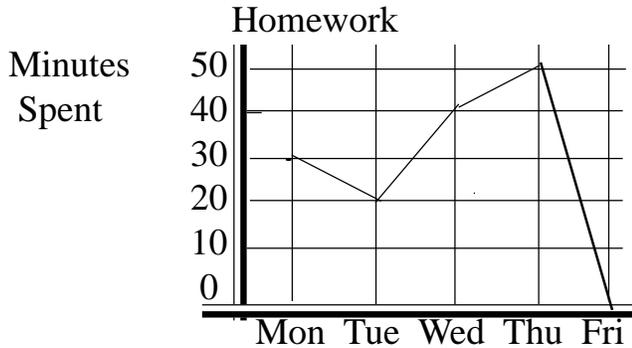


★★ 1. Robert made a broken line graph to show how much time he spent on homework last week.

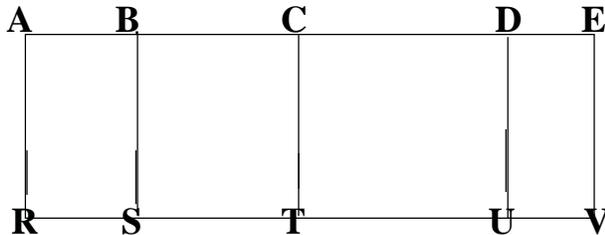


Which night did Robert spend the longest on his homework? \_\_\_\_\_

Which night did Robert spend the least time on homework? \_\_\_\_\_

How much time did Robert spend on homework during the week? \_\_\_\_\_

★★★ 2. How many different rectangles can you find in this shape? \_\_\_\_\_



Can you name them? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

★★★★ 3. Lee and his five friends are hungry for a snack. Circle the number of cookies his Mom needs to bake for all the children to have an equal number of cookies.

- 10    14    16    18    20

★★ 4. Mrs. Hill dumped a load of clean socks on the table and sorted them into piles. She had four brown socks, three green socks, five black socks, and five blue socks.

How many pairs of socks can she put in the dresser? \_\_\_\_\_

Which socks were lost? \_\_\_\_\_

## Strategy of the Month

*You have tried many ways to solve problems this year. Already you know that when one strategy does not lead you to a solution, you back up and try something else. Sometimes you can find a smaller problem inside the larger one that must be solve first. Sometimes you need to think about the information that is missing rather than what is there. Sometimes you need to read the problem again and look for a different point of view. Sometimes you need to tell your brain to try to think about the problem in an entirely different way - perhaps a way you have never used before. Looking for different ways to solves problems is like brainstorming. Try to solve this problem. You may need to **change your point of view** .*

Mrs. Gomez is planning a party. She needs seating for 26 people. She can use hexagon tables for six guests and square tables for four guests. She would like to use more hexagon tables than square tables. How many of each does she need?

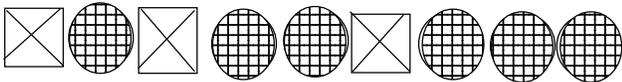
## MathStars Home Hints

*Identifying the mathematics that is all around you can be lots of fun. Think about the geometry and spatial visualization you use in playing video games or when you play golf or basketball. When your parents parallel park, they are using their spatial skills too. When you track a hurricane, you use coordinates. When you check the stock market or read the latest sports statistics, you are using mathematics. With your family or friends go on a math scavenger hunt. Who can identify mathematics in the most unusual places?*

★★ 5. Terry's kitten was playing with a ball of yarn. How many centimeters long is the piece of yarn unrolled from the ball?



★★ 6. What are the 21st, 22nd, and 23rd shapes in this pattern?



★★★ 7. Riders and horses are in the field. There are 32 legs in the field. The number of riders is one more than the number of horses. How many horses and riders are in the field?

horses \_\_\_\_\_ riders \_\_\_\_\_

★★★★ 8. Six rabbits had a race. Peter and another rabbit tied for second place. Pokey came in last. Flopsy was ahead of Cottontail. Cottontail beat Hopper. Mopsy was beaten by only one other rabbit.

Who won the race?

Show the order in which they crossed the finish line:

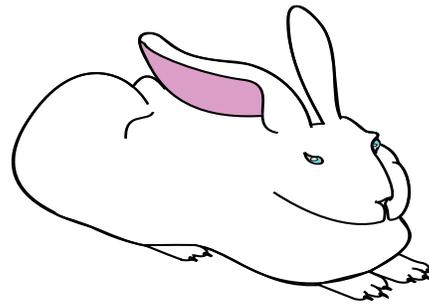
First: \_\_\_\_\_

Second: \_\_\_\_\_ and \_\_\_\_\_

Third: \_\_\_\_\_

Fourth: \_\_\_\_\_

Fifth: \_\_\_\_\_



## Setting Personal Goals

*Students who recognize the value of mathematics are well on their way to becoming mathematically powerful citizens. Valuing mathematics means that we appreciate the richness, power, and usefulness of mathematics. Without math there would be no roads or bridges, computers or movies, banks or fast food restaurants. How can you become mathematically powerful?*