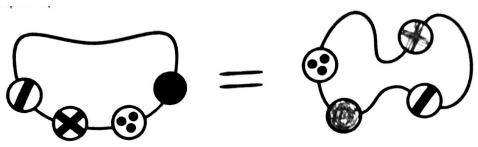
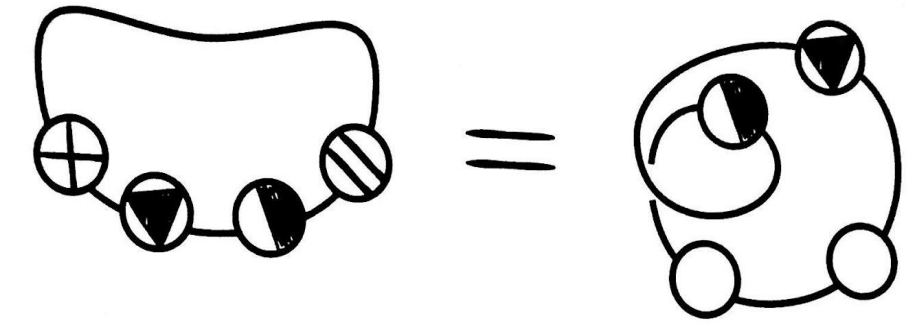
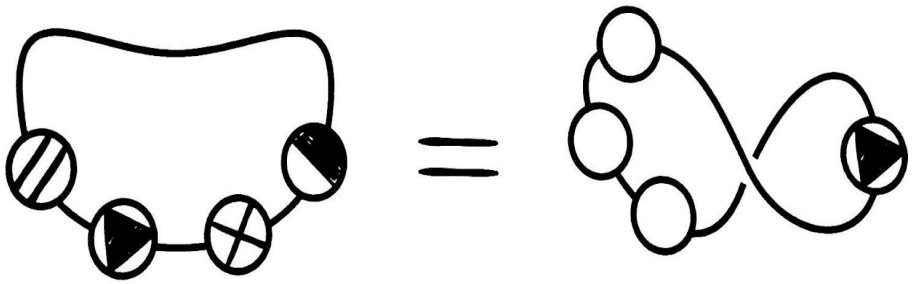
Name:	Group "Gauss“ HOMEWORK	Lesson 16

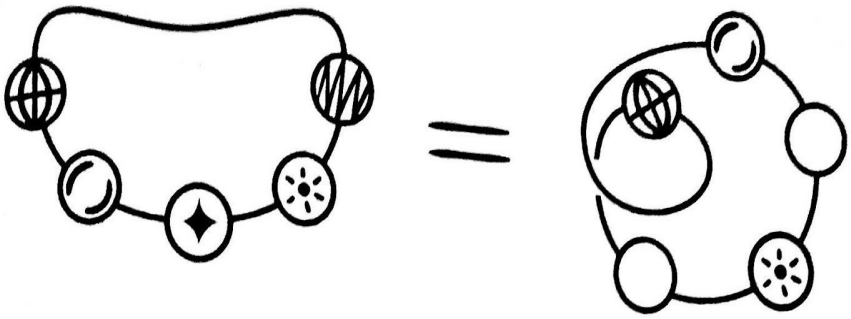
1. Lila’s kitten was playing with her string necklaces and tangled them up. Draw in the beads so that the tangled necklace looks the same as the untangled one.

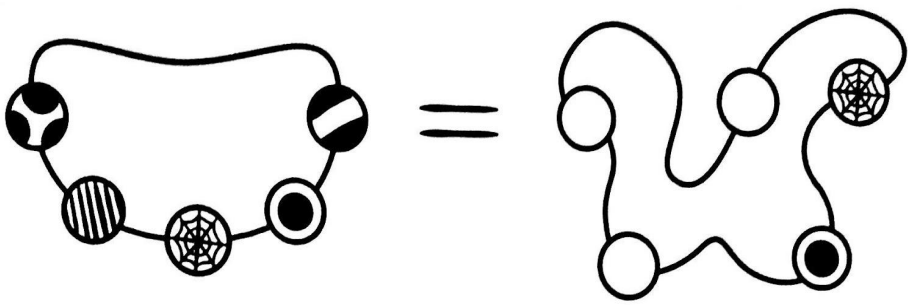
Example:



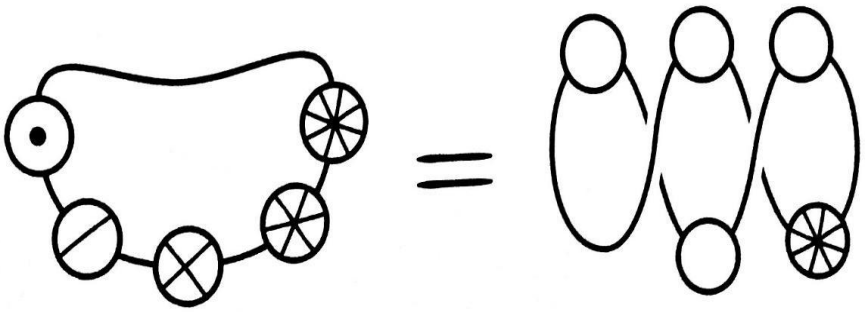








Golden Key Enrichment © 2023. Sources available upon request.



2. Mental math. Use the strategies discussed in class to solve the problems below in your head. DO NOT use the stacking method to solve these problems.

1) 17 + 9 =
2) 39 + 39 =
3) 99 + 56 =
4) 97 + 99 =
5) 19 + 19 + 19 =

3. Practice Kangaroo problems

7. In the drawing we see a string with four beads. Which of the strings below is the same string?

(A) (B) (C) (D) (E)

---

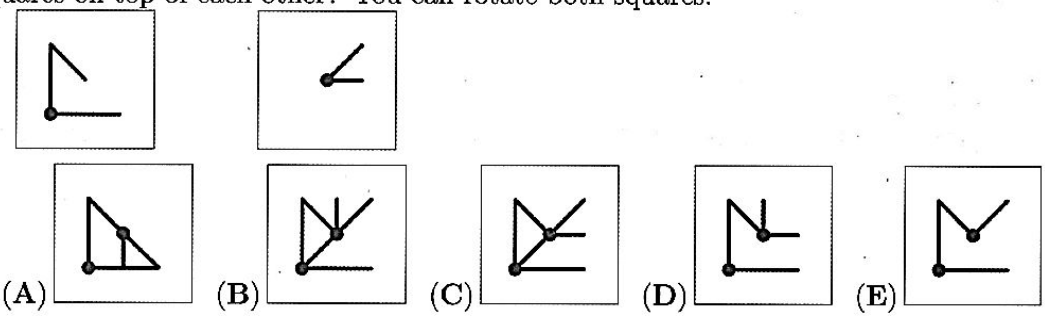
6. In the figure, we see a necklace of six beads.

Which one is the same necklace?

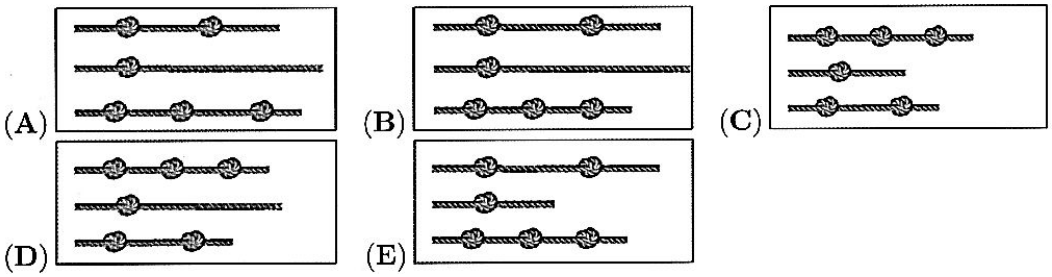
(A) (B) (C) (D) (E)

Golden Key Enrichment © 2023. Sources available upon request.

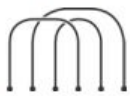
 # 10. Which one of the following figures can be made by placing these two transparent squares on top of each other? You can rotate both squares.



 # 16. Charles cut a rope in three equal pieces and then made some identical knots on the pieces. Which figure correctly shows the three pieces with the knots?

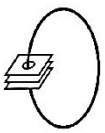


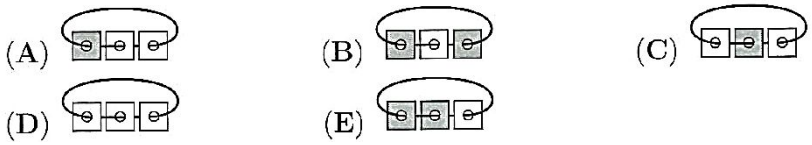
---

20. Three ropes are laid down on the floor as shown. 

You can make one big, complete loop by adding three other pieces of rope to these three. Which of the following sets of rope pieces shown below will make one big loop?

 # 24. In a stack of three cards with holes, the top of each card is white and the bottom is gray. Basil threaded these cards on a rope (see picture on the right). Which of the following can he obtain without untying the rope?





END OF HOMEWORK!

Golden Key Enrichment © 2023. Sources available upon request.

PLEASE PRINT THE FOLLOWING PAGES FOR NEXT WEEK'S CLASS.

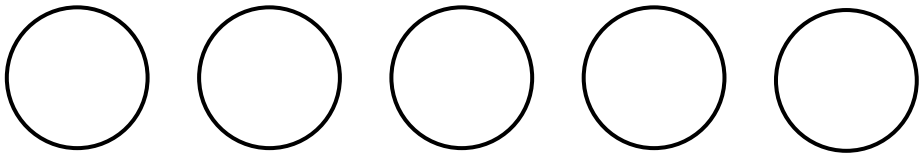
Supplies for next class:

- Printout of homework and classwork
- Colored pencils - red, blue, yellow, green
- Snap cubes (in your supplies packet)

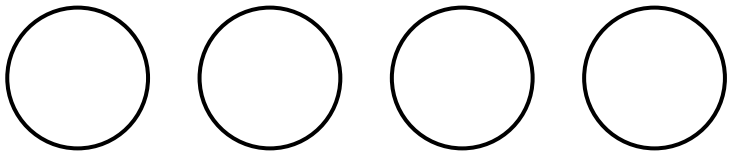
Golden Key Enrichment © 2023. Sources available upon request.

Logic Links Puzzles

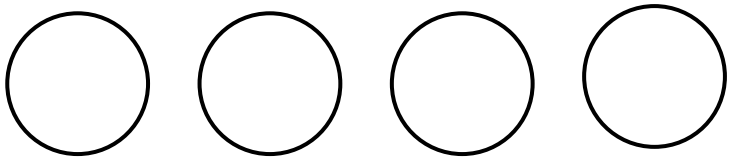
Puzzle 19
Colors: 2 yellow, 1 blue, 2 red
Clue 1: Each of the red circles is directly to the left of a yellow circle.
Clue 2: The blue circle touches only a yellow circle.



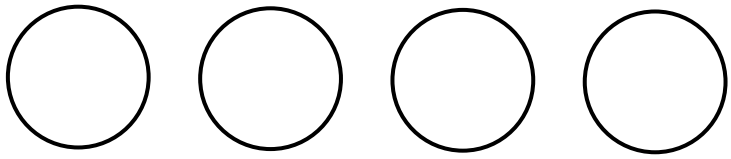
Puzzle 21
Colors: 1 red, 1 green, 1 blue, 1 yellow
Clue 1: The blue circle is directly to the right of the red circle.
Clue 2: One end is green.
Clue 3: One end is red.



Puzzle 23
Colors: 1 red, 1 green, 1 blue, 1 yellow
Clue 1: The red circle is directly between the yellow circle and the blue circle.
Clue 2: The yellow circle is directly on the left of the green circle.



Puzzle 25
Colors: 1 red, 2 blue, 1 yellow
Clue 1: The blue circles are not next to each other.
Clue 2: The yellow circle is directly on the right of the red circle.



Golden Key Enrichment © 2023. Sources available upon request.

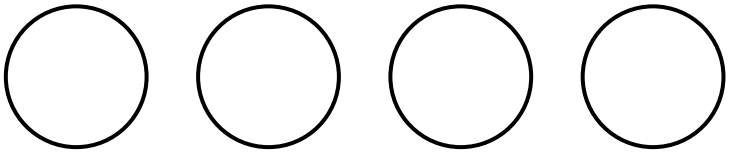
Puzzle 27

Colors: 1 red, 1 green, 1 blue, 1 yellow

Clue 1: The yellow circle and the green circle are not next to each other.

Clue 2: The blue circle is directly on the left of the red circle.

Clue 3: The yellow circle is directly on the right of the red circle.

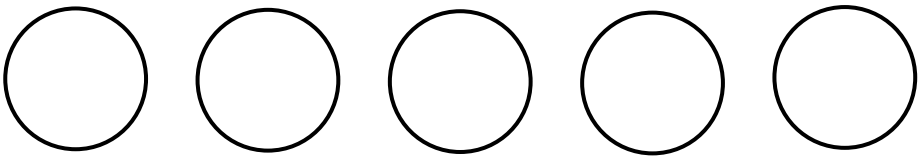


Puzzle 29

Colors: 2 yellow, 1 green, 1 blue, 1 red

Clue 1: Two circles of the same color are directly between the green circle and the blue circle.

Clue 2: The red circle is directly on the right of the blue circle.

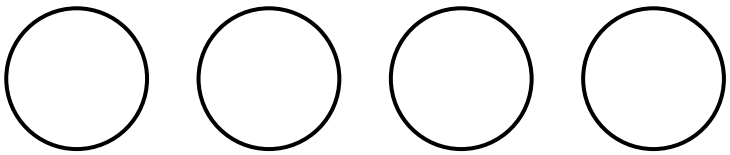


Puzzle 31

Colors: 2 yellow, 1 blue, 1 red

Clue 1: There are two circles between the yellow circles.

Clue 2: The red circle is directly on the left of a yellow circle..



Puzzle 33

Colors: 3 yellow, 2 blue, 1 green

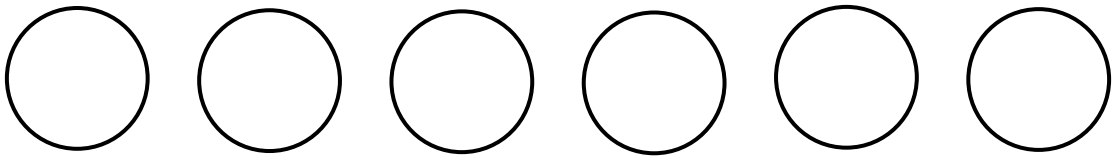
Clue 1: The ends are two different colors.

Clue 2: All the yellow circles are together.

Clue 3: The blue circles are not next to each other.

Clue 4: The green circle is directly on the right of a blue circle.

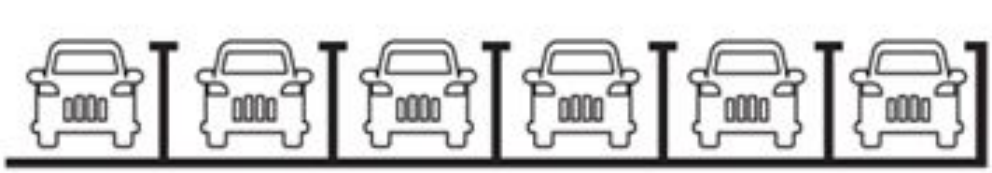
Clue 5: Neither end is yellow.



Golden Key Enrichment © 2023. Sources available upon request.

2. Cars Puzzles. Source: Jane Kats, “Dino Math”

1. Color the white cars.
   - Red cars are not on the ends
   - One yellow car is between a red and a blue car
   - One red car is between two blue cars



Golden Key Enrichment © 2023. Sources available upon request.