

# Meeting 3

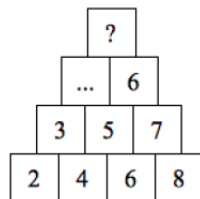
## Math Kangaroo Problem Solving

October 18, 2015

1. The first day of a month is a Sunday. There are 5 Sundays in this month. The last day is a Tuesday. How many days are there in that month?

What month could this be?

2. Which number should be at the question mark in the pyramid?



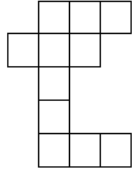
3. There are sheep and cows on a farm. The number of cows is equal to the number of sheep. All together, they have 24 legs. How many cows and how many sheep are there on the farm?

4. Last week, John walked a total of 26 kilometers. Sarah walked half of this distance plus another 17 kilometers. Who walked more? By how much? Draw a picture.

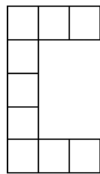
5. A log that is 15 meters long needs to be cut into pieces that are 3 meters long. How many cuts do we need to make?

6. Dad and son came home after a day of working on the farm. Mom offered to make them cookies for all their hard work. She made a total of 20 cookies. The father ate 6 more cookies than the son. The father and son ate all of the cookies. How many cookies did the son actually eat?

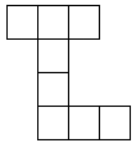
7. Which of the figures below cannot be cut out from this figure:



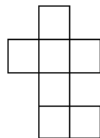
(a)



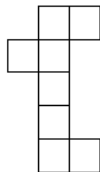
(b)



(c)



(d)



8. Kuba bought a chocolate heart for his mother (see the picture). Each candy square weighs 10 grams. What is the weight of the whole heart?

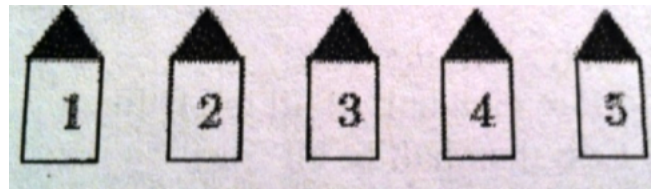


- (a) 340 g
- (b) 360 g
- (c) 380 g
- (d) 400 g
- (e) 420 g

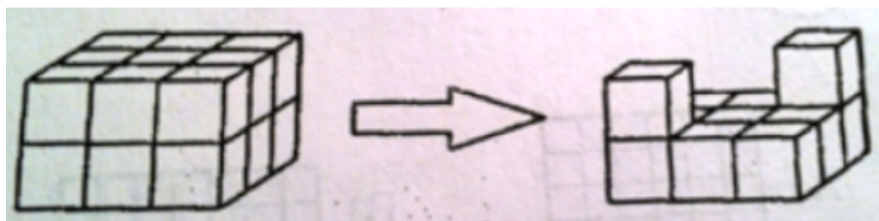
9. The buildings on Color Street are numbered from 1 to 5 (see the picture below). Each building is colored with one of the following colors: blue, red, yellow, pink or green. It is known that

- The red building is only next to the blue building.
- The blue building is between the red building and the green building.

What is the color of the building number 3?



10. How many cubes have been removed from the first structure to make the second one?

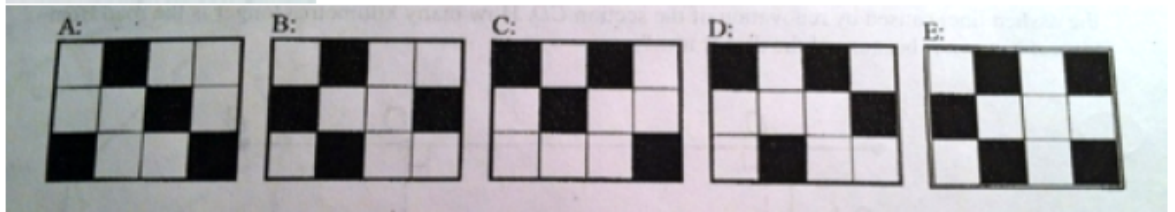
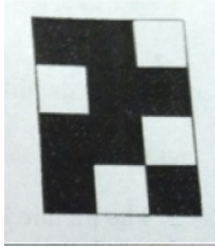


How many cubes are there left in the second structure?

11. Helen has \$5. She is going to buy 5 notebooks that cost 80 cents each and a certain number of pencils that cost 30 cents each. What is the biggest number of pencils that she can buy?

12. There are 9 lanterns on one side of an alley in the park. The distance between neighboring lanterns is 8 meters. Gregory went through this alley from the first lantern to the last lantern. How many meters did he walk?

13. Five identical rectangular plastic sheets were divided into white and black squares. Which of the sheets from A to E has to be covered with the sheet right below this question in order to get a completely black rectangle?





14. Four people can sit at a square table. For the school party the students put together 7 square tables in order to make one long rectangular table. How many people can sit at this long table now?

15. There are four siblings in the room: Anna, Brian, Corey, and Dalia.

- Anna is twice as old as Brian.
- Brian is 3 years older than Dalia.
- Corey is half Dalia's age.
- Corey is 5 years old.

How old is Anna?