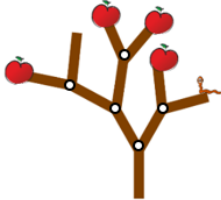


NAME: _



A worm is sitting at the end of the branch on the tree shown below.

It wants to eat all the apples by moving through the tree's branches.
(The tree is made of 1-meter long branch sections.)



Question:

What is the shortest distance, in meters, that the worm must crawl to eat all the apples?

4

9

13

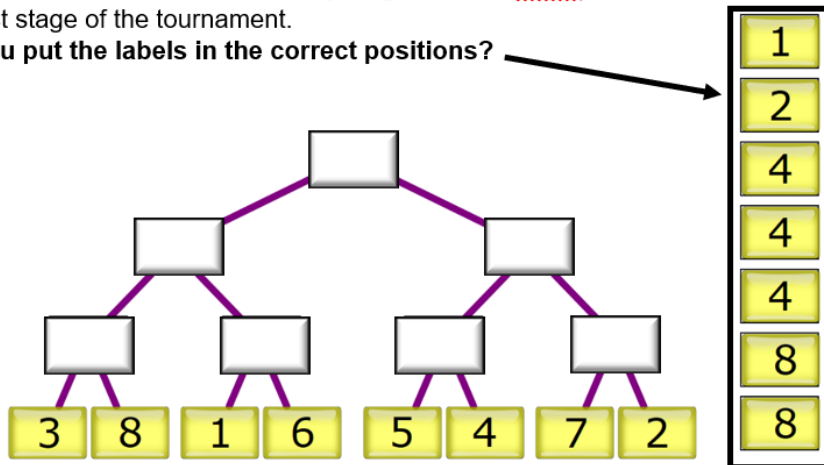
15



Krešo watched a tournament of races and recorded the winners of each stage on the board below.

- The runners wore the same numbers, from 1 to 8, throughout the tournament.
- Krešo used numbered cards to represent each runner.
- When the tournament was over his younger brother Tomo mixed up all the cards, except those from the first stage of the tournament.

Task: Can you put the labels in the correct positions?



There are 10 students working on the school's newspaper. Every Friday they write or edit their own articles.

Students	Hours						
	8:00	9:00	10:00	11:00	12:00	13:00	14:00
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

- The red cells, on the plan below, show when the students need a computer.
- The computers are all the same.
- During any one hour, only one student at a time can work on a computer.

Question: What is the minimum number of computers needed for all of the students to work according to the plan shown above?

POINTS AWARDED FOR EACH TASK:



= 5



= 3



= 2

TOTAL POINTS
ACHIEVED:



NAME: _____

USING A DATABASE

1. What online Database did you use? (How many can you think of?)

CHALLENGE: Use the internet to find out what a DBMS is and why are they useful?
[write challenge answer here]

2. What did you search for and how did you make it search for it?

3. Sort the database to arrange the results from Highest to Lowest.

4. What other ways are there to “filter” your search results?

CHALLENGE: What is a Primary Key Field in a Database and why is it used?
[write challenge answer here]