

Logic Reasoning

1 (1分) Teacher Peter gave one red, one white, and one blue balloon to three children, one balloon per child. Based on the statements below, determine which color balloon each child received.

(1) Amy said, "I did not receive the blue balloon."

(2) John said, "I did not receive the white balloon."

(3) Jack said, "I saw that the blue and red balloons were given to the two children above."

Which color balloon did John receive?

A. White

B. Red

C. Blue

2 (1分) Athletes A, B, and C each won an award in a sports meet. They competed in three different events: weightlifting, hurdles, and long jump, one event per athlete. It is known that Athlete A is heavier than the hurdler, and the long jumper is lighter than both Athlete C and the weightlifter.

The weightlifter is _____, the hurdler is _____, and the long jumper is _____.

A. A, B, C

B. A, C, B

C. B, C, A

D. C, A, B

3 (1分) Bridget, Cassie, and Hannah are discussing the results of their last math test. Hannah shows Bridget and Cassie her test, but Bridget and Cassie don't show theirs to anyone. Cassie says, 'I didn't get the lowest score in our class,' and Bridget adds, 'I didn't get the highest score.' What is the ranking of the three girls from highest to lowest? (). (2013 AMC 8 Problems, Question #19)

A. *Hannah, Cassie, Bridget*

B. *Hannah, Bridget, Cassie*

C. *Cassie, Bridget, Hannah*

D. *Cassie, Hannah, Bridget*

4 (1分) John wrote a 4—digit number on a piece of paper and asked Peter to guess it. Peter asked: "Is the number **1369**?"

John replied: "No, but the number is a multiple of **1369**."

Peter asked again: "Is the number divisible by **9**?"

John replied: "No. You will get a remainder of **4** when the number divided by **9**."

What is the sum of digits of the number written by John?

- A. **22** B. **24** C. **26** D. **28** E. **30**

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(1分) Guess a number.

Jack said: "It is a prime number."

Emma said: "It is **9**."

Oliver said: "It is an even number."

Sophia said: "It is **15**."

The teacher said: "One of Jack and Emma is correct, and one of Oliver and Sophia is also correct."

What is the range of the number?

- A. 1 ~ 4 B. 5 ~ 10 C. 11 ~ 14 D. 15 ~ 20 E. 21 ~ 30