

PROBLEMI IN INGLESE

ESERCIZIO 11

Scuola Sec. Primo grado – SQ. – Gara 1 - 16/17

PROBLEM

A group of 8 children decided to go on a 6-day canoe trip. After they had just bought enough food for the trip, two adults decided to go on the trip with them. If they didn't buy any more food and an adult ate twice as much as a child, how many days will their food last?

Put your answer, as an unsigned integer, in the box below.

Soluzione: 4

ESERCIZIO 12

PROBLEM

Alice and Bob are two little children sitting face to face, with a big dice lying between them. Each child sees the upper side of the dice and only two of the lateral sides, but neither child sees the same lateral sides. Each child counts the dots on the three sides he can see: Alice sees 10 dots and Bob sees 14 dots. How many dots are there on the side on which the dice rests? Put your answer, as unsigned integer, in the box below.

Hint. Remember that the dots on opposite sides of a dice have a sum of 7.

Soluzione: 2

ESERCIZIO 11

Scuola Sec. Primo grado – SQ. – Gara 2 - 16/17

PROBLEM

In a class, six students are planning to take vacations in France, ten students are going to UK, five students are going to Spain, and seven students are not taking any vacation days at all.

In the booking process, it is found that four students are going both to France and UK, three students are going both to UK and Spain, and one to all three countries.

How many students are there in the class?

Put your answer, as unsigned integer, in the box below.

Soluzione: 21

ESERCIZIO 12

PROBLEM

Bill takes 3 hours to paint a fence; his young sister Alice can paint the same fence in 6 hours. How long will it take them if they work together?

Put your answer, in hours and minutes (as unsigned integer), in the table below.

hours	minutes

Soluzione : 2, 0

ESERCIZIO 11

Scuola Sec. Primo grado – SQ. – Gara 3 - 16/17

PROBLEM

Fifteen workers, working in 3 shifts of 8 hours and 5 people per day, finished to pave half of a road in 12 days. If three more workers were added to the crew (one more per shift), how long will it take to finish the work?

Put your answer, in days (rounded if necessary), in the box below.

ESERCIZIO 12

PROBLEM

A block of metal is made up of nickel and copper in a ratio 5:13 (weight). If the block weight 558 kg, what is the weight of the nickel?

Put your answer in the box below, as an integer (round if necessary).

ESERCIZIO 11

Scuola Sec. Primo grado – SQ. – Gara 4 - 16/17

PROBLEM

Each of the following 4-digit numbers has a digit that has been replaced with a letter:

129X is a perfect square

693Y is an odd multiple of 7

948Z is a multiple of 9

Compute the square root of the number whose decimal representation is XYZ, that is the number:

$$100 \times X + 10 \times Y + Z.$$

Put your answer, as an integer number (rounded if necessary) in the box below.

ESERCIZIO 12

PROBLEM

A hardware store sold an appliance at a 40% discount on Monday. It then took another 40% off the price on Wednesday. If the Wednesday price was 54 dollars, what was the regular price of that appliance?

Put your answer as an integer number (rounded if necessary) in the box below

