GEP
DAY 1

1. There are some books distributed to some children. If there are 4 books for each child, there are 5 books left. If there are 7 books for each child, there are 16 books needed. How many children are there?

【Solution】

From the remaining 5 books to the lack of 16 books, it means that a total of $5+16=21$ more books have been distributed to the children. A child gets $7-4=3$ more books. So there are $21\div3=7$ children.

2. Five children A, B, C, D, and E have different scores in a test with a full score of 100. If A, B and C have an average score of 96 points, C, D and E have an average score of 92 points, and the sum of the scores of them is 471, what is the score of C?

【Solution】

The total score of A , B and C：$96\times3=288$ ； the total score of C, D and E：$92\times3=276$

$288+276-471=93$,

So C's score is 93.

3. The school held a math competition and there were 20 questions in all. Students will get 3 points for doing a certain question correctly, and 1 point will be deducted for not doing a certain question or doing a certain question wrongly. Alex got 40 points in all. How many questions did he do correctly?

【Solution】

Assuming that he gets all the questions right, he will get 60 points, but he actually only gets 40 points, which is 20 points less than the assumption. And if he gets one more question wrong, he will get 4 points less.

$(60-40)\div(3+1)=5$, $20-5=15$

So he did 15 questions correctly.