

Name _____

25 Date 11/6/13

Lincoln Internet Quiz- Least Common Multiple

Oh no, Mr. Goul is trying another one of his "better ways" to solve a math problem...

4. 4, 8, 12, 16, 20, 24
8. 8, 16, 24
12, 12, 24

done Mr. Goul's way

Handwritten LCM diagram for 4, 8, and 12.

The diagram shows the prime factorizations of 4, 8, and 12:

- 4: 2×2
- 8: $2 \times 2 \times 2$
- 12: $2 \times 2 \times 3$

The LCM is calculated as $2^3 \times 3 = 24$.

done correctly

In the space above, complete the problem accurately.

On the lines below, explain Mr. Goul's mistake using detailed and specific sentences.

Mr. Gouls way is correct but it takes forever to skip count
Mr. Gouls did not circle all the common factors
Other wise he did not show all his work so it is wrong
I don't know how because my teacher never showed me in

done Mr. Goul's way

The image shows handwritten mathematical work on lined paper. At the top left, there is a vertical division problem: $6 \overline{)12}$. The quotient is written as 2 above the line, and the remainder is 0 below the line. To the right of this, another vertical division problem is shown: $6 \overline{)18}$. The quotient is 3, and the remainder is 0. Below these two problems, a horizontal subtraction problem is written: $2 + 3 = 5$. In the bottom right corner, there is a large circle containing the number 8. At the very bottom of the page, the words "done correctly" are written in a large, bold, black font.

done correctly

In the space above, complete the problem accurately.

On the lines below, explain Mr. Goul's mistake using detailed and specific sentences.

Mr. Gouj did perfect until he added 2 and 3 instead of multiply. When he checks his work (which he didn't) he will have a hard time getting 6 to go into 18, 6, 18.

Name _____ # 19 Date 11-6-12

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Oh no, Mr. Goul is trying another one of his "better ways" to solve a math problem...

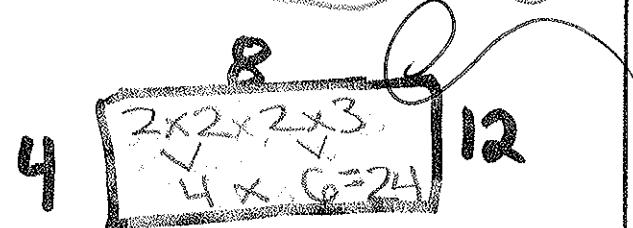
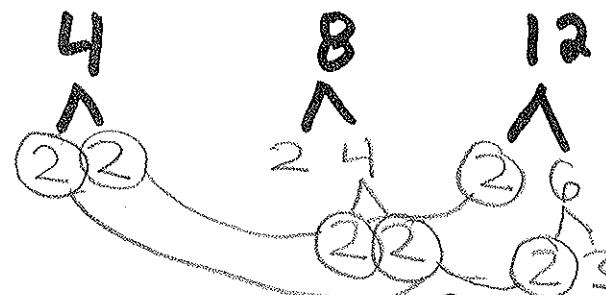
4, 4, 8, 12, 16, 20, 24

8, 8, 16, 24

12, 12, 24

$$\text{LCM} = 24$$

done Mr. Goul's way



done correctly

In the space above, complete the problem accurately.

On the lines below, explain Mr. Goul's mistake using detailed and specific sentences.

Mr. Goul's answer was wrong because whenever you count if one number is wrong it will change the answer to a wrong answer. Also because it takes longer than the other ways.

$$6 \overline{)12 \overline{)18}$$
$$5 \overline{)6$$
$$2+3=5$$

done Mr. Goul's way

$$6 \overline{)12 \overline{)18}$$
$$6 \overline{)18$$
$$2x3=6$$

done correctly

In the space above, complete the problem accurately.

On the lines below, explain Mr. Goul's mistake using detailed and specific sentences.

Mr. Goul's mistake was that he added instead of dividing. Plus he also forgot to divide so he would get the wrong answer. Also he put the division problem in the wrong answer.

Other than that I did GREAT!