(1.) 91 is a composite number. Besides 1 and 91, 91 is divisible by 7 and 13.

So, Coach Link can make

7 teams of 13 (or)

13 teams of 7.

(2.) $5\overline{)35}$ boys

$7\overline{)56}$ girls

$2\overline{)8}$

$2\overline{)4}$

2

boys: 5×7

girls: $2 \times 2 \times 2 \times 7$

The GCF = (7)

The LCM = $\underbrace{7}_{\text{common}} \times \underbrace{(2 \times 2 \times 2 \times 5)}_{\text{uncommon}}$

$7 \times 40 =$ (280) LCM

(3a.) Boys = 12 Girls = 18

$2\overline{)12}$

$3\overline{)6}$

2

$2\overline{)18}$

$3\overline{)9}$

3

B: $2 \times 2 \times 3$

G: $2 \times 3 \times 3$

GCF = $2 \times 3 =$ (6) teams

(b.) Boys $6\overline{)12} = 2$ boys per team

Girls $6\overline{)18} = 3$ girls per team

(4a.) 1260

Divisible by 2? (Yes) even number

3? (Yes) $1+2+6+0=9$ is ÷ by 3

4? (Yes) 60 is ÷ by 4.

5? (Yes) ends in zero.

6? (Yes) ÷ by 2 and 3.

9? (Yes) $1+2+6+0=9$ ÷ by 9.

10? (Yes) ends in zero.

(4b)

$2\overline{)1260}$

$3\overline{)630}$

$3\overline{)210}$

$7\overline{)70}$

$2\overline{)10}$

5

$2 \times 2 \times 3 \times 3 \times 5 \times 7$

$2^2 \times 3^2 \times 5 \times 7$