Answer the questions

(1) When a number is divided by a divisor, it gives a quotient that is $\frac{1}{10}$ times the divisor, and leaves a remainder that is $\frac{1}{4}$ times the divisor. If the remainder was 30, then what was the dividend?

(2) Find the value of E and F, from following summation.

$$\begin{array}{r} 1\ F \\ +\ E\ 3 \\ \hline 5\ E \end{array}$$

(3) If a rhombus is re-shaped such that one of its diagonal increases by 2%, while other diagonal decreases by 2%. Find the percentage change in the area of rhombus.

(4) There is a sequence of numbers a_1, a_2, ... where $a_1 = 2$, $a_2 = 3$, and $a_n = \frac{a_{n-1}}{a_{n-2}}$ for n> 3. What is the value of a_{1800}?

(5) If area of a rhombus is 120 cm^2 and one of its diagonal is 10 cm, find its perimeter.

(6) Coin A is flipped 3 times and coin B is flipped 5 times. What is the probability that the number of heads obtained from flipping the two coins is the same?

Choose correct answer(s) from given choice

(7) There are 336 boys and 168 girls students in a school. Principal wants to divide them in section such that a section can have only boys or only girls. If all sections should have same number of students, and principal wants to have as fewer section as possible find the number of sections in the school.

a. 2 **b.** 0

c. 3 **d.** 7

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