

## ARITMATIKA, GEOMETRI, DAN ALJABAR

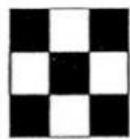
1. Find the number A such that the following statement is true:

$$5 \times 10 + 6 \times 10 = 11 \times A$$

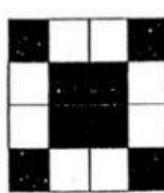
2. A bag contains a total off 15 balls of 5 different colours. Each colour has a unique number of balls in the bag. What is the least number of balls to be picked (without looking) to ensure three different coloured balls are picked?

3. In the following pattern, how many black squares are there in the 19<sup>th</sup> image?

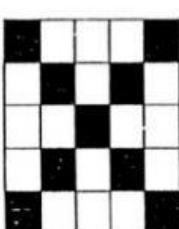
1<sup>st</sup> Image



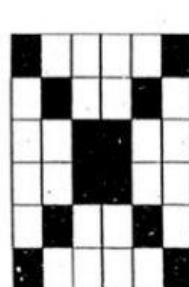
2<sup>nd</sup> Image



3<sup>rd</sup> Image



4<sup>th</sup> Image



4. What is the next number in the following pattern

1, 3, 11, 123, ?

5. ABCD is a square park where AB = 100 m. The shaded area represents grass and the solid areas represent congruent squares of concrete. If EF = 5 m, what is the ratio of the area covered by grass to the area covered by concrete?

