



GENERAL APTITUDE

Quantitative Aptitude





Lecture No: 14

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Basics of Number System



Logical Calculations & Divisiblity Test



Cyclicity of Unit digits



Questionnaire Numbers

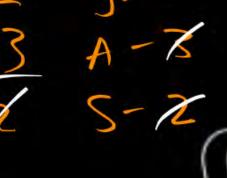


Mahatma Gandhi was born on 2nd October 1869. What

was the week Day?

1868 > 4 +2







Monday



Thursday







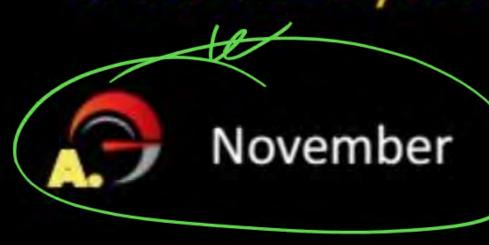


Tuesday



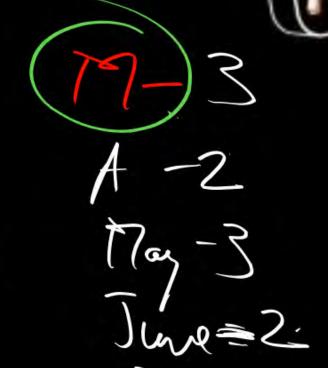


The day of the March 16th of any year is the same day of the week as the corresponding date in which month of the same year?

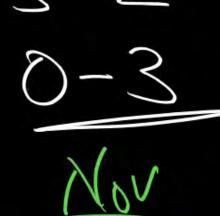




July









September



April



If January 1st 1992 was a Wednesday. What day of the week was January 1st 2003?



Sunday



Thursday



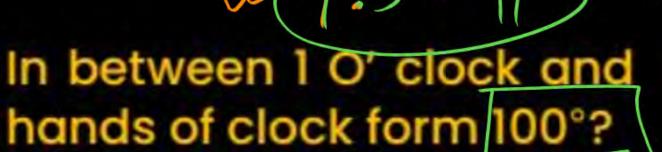


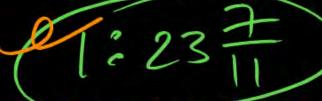
Friday





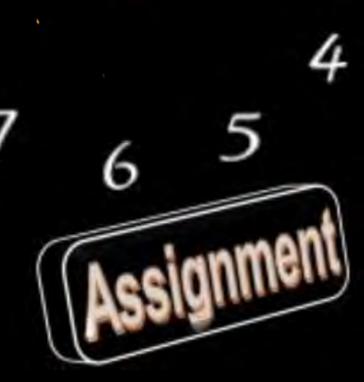






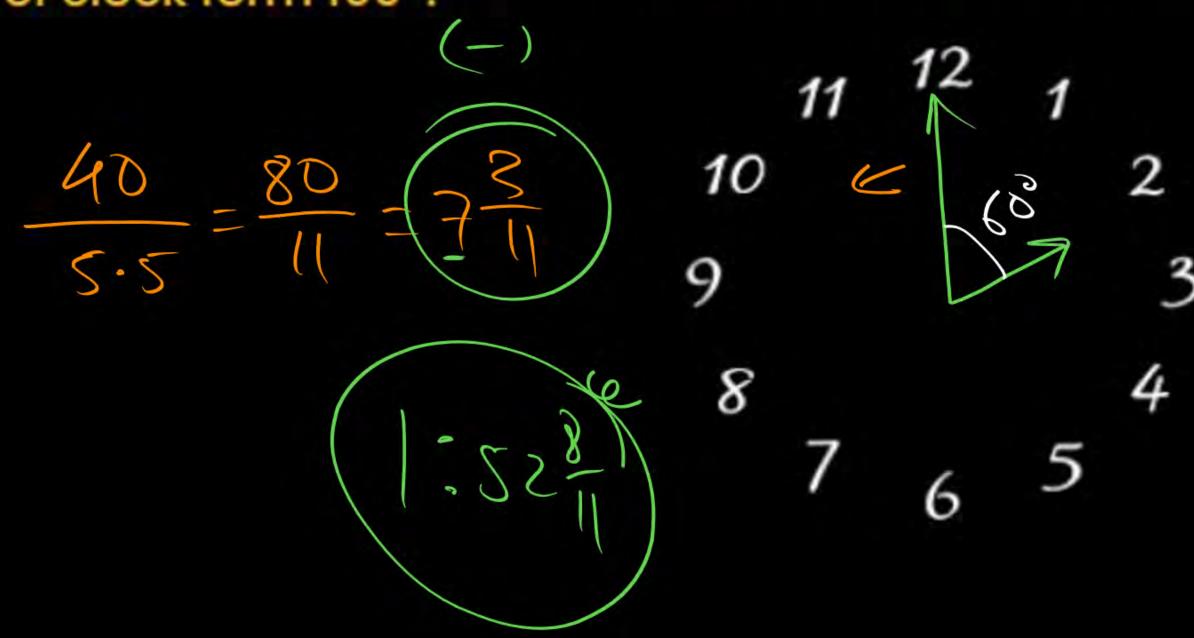
2 O' clock at what time the

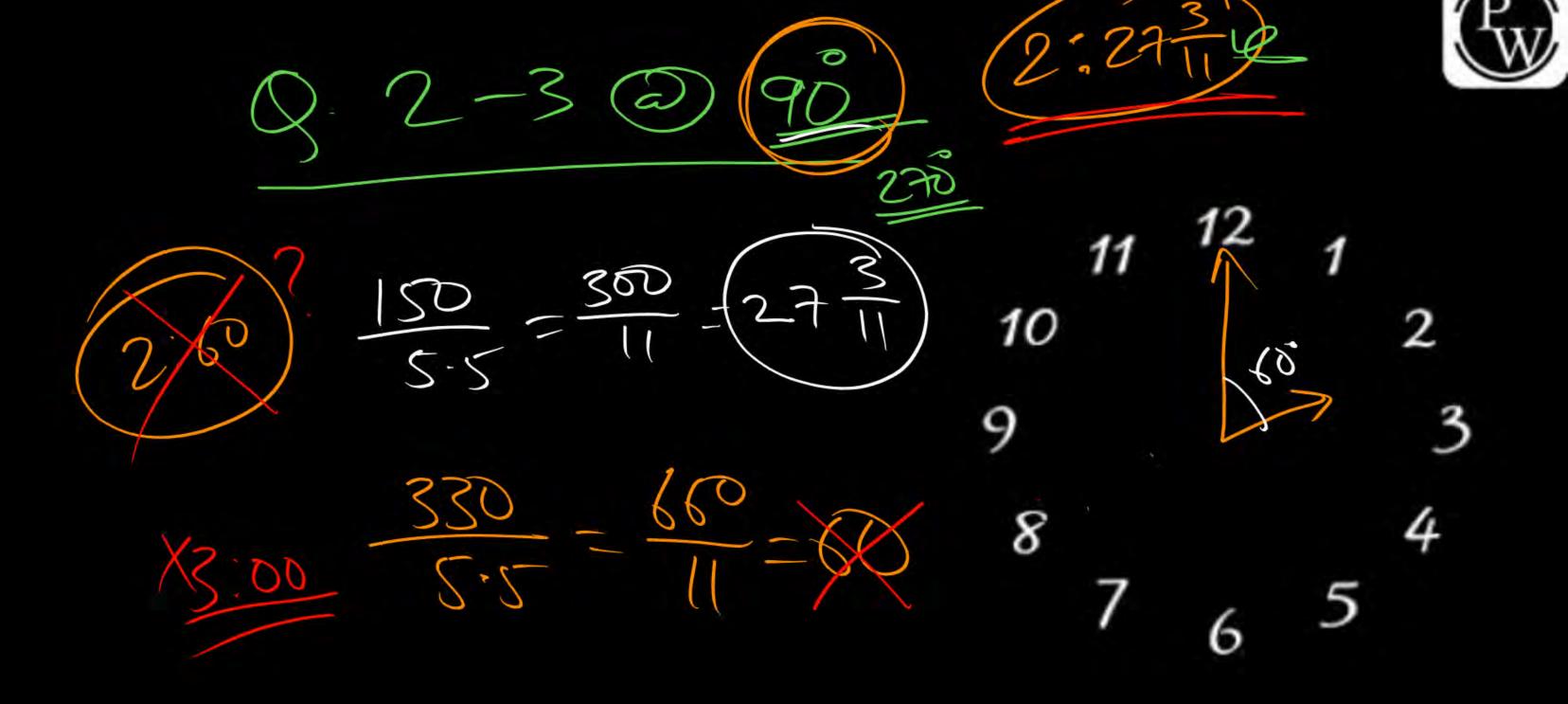
$$\frac{130}{5.5} = \frac{260}{11} = 23\frac{7}{11}$$





In between 1 O' clock and 2 O' clock at what time the hands of clock form 100°?



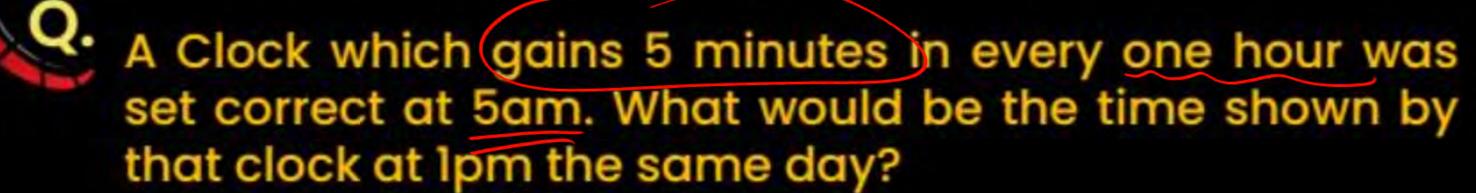




Gain OR Lose













A clock which looses 10 minutes in every one hour was set correct at 4am, what would be the time shown by that clock at 4pm the same day?

4pm - 2hr

2Pm

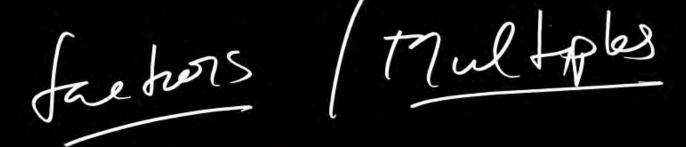


Number System



Basic

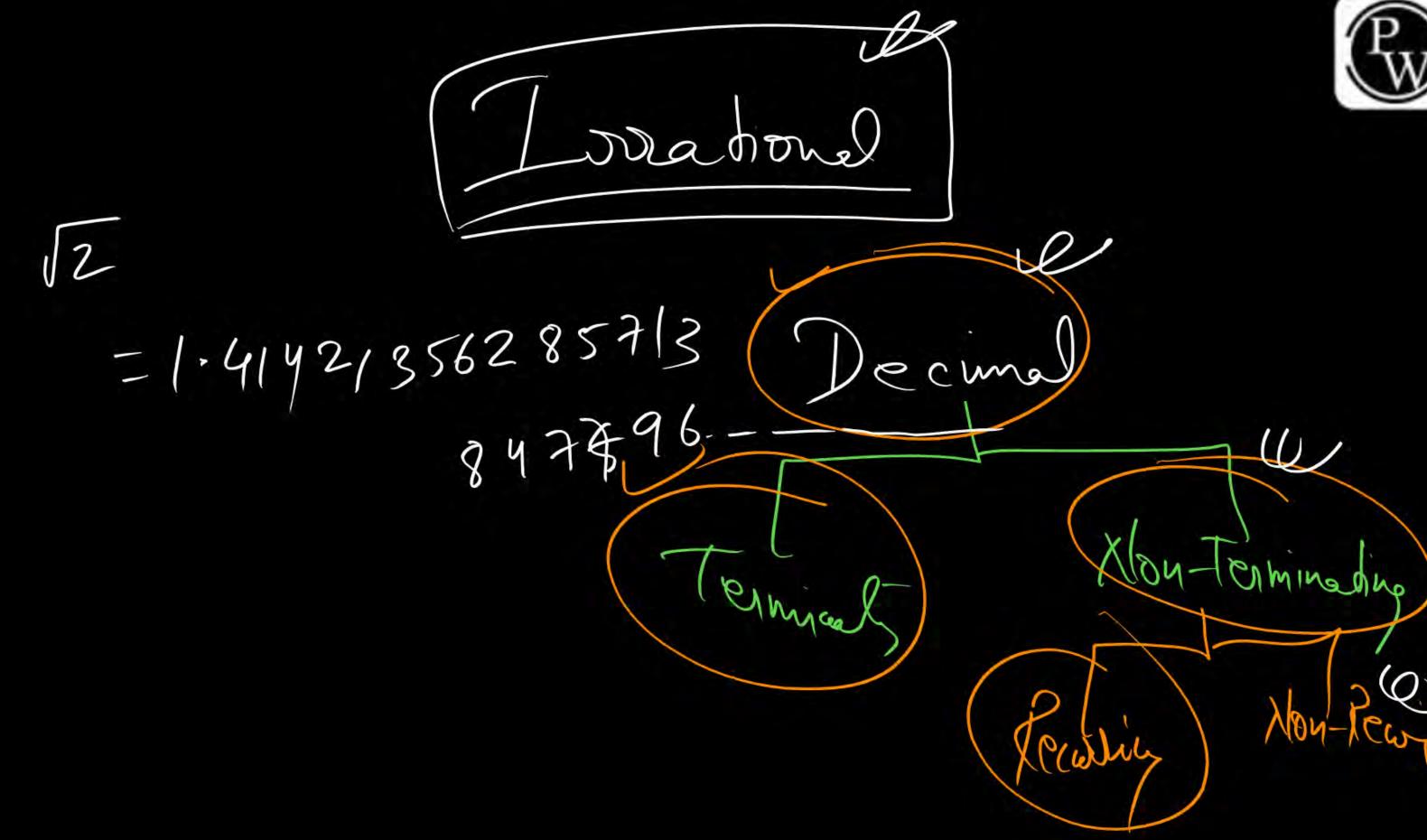
- Natural Number
- Whole Number ~
- Even Number
- ODD Number
- Integers
- Prime Numbers Number
- Composite Numbers {Non-Prime}
- Rational & Irrational

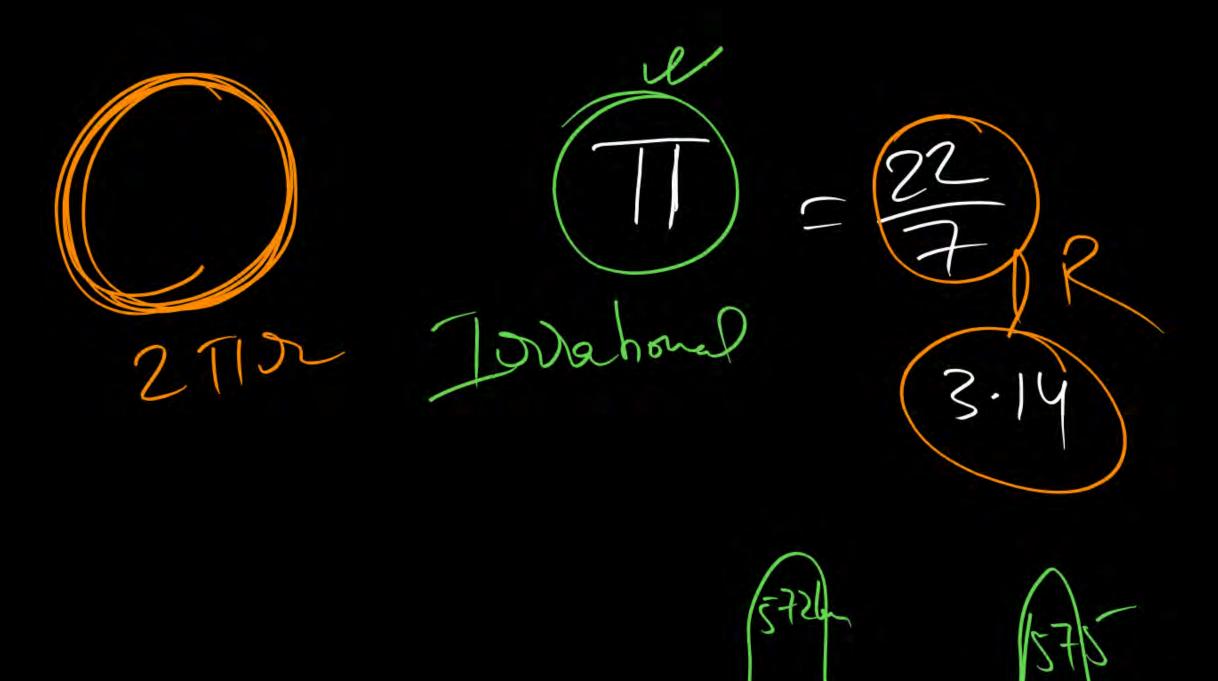




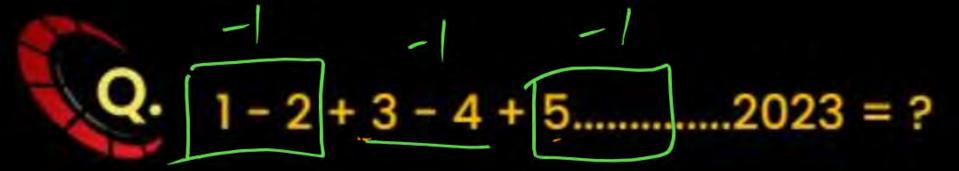
2.44 2 138 28 Q adonal JD, OF 9, \$0 10x - 424. 4444. ---9x = 382

 $X = \frac{382}{9}$

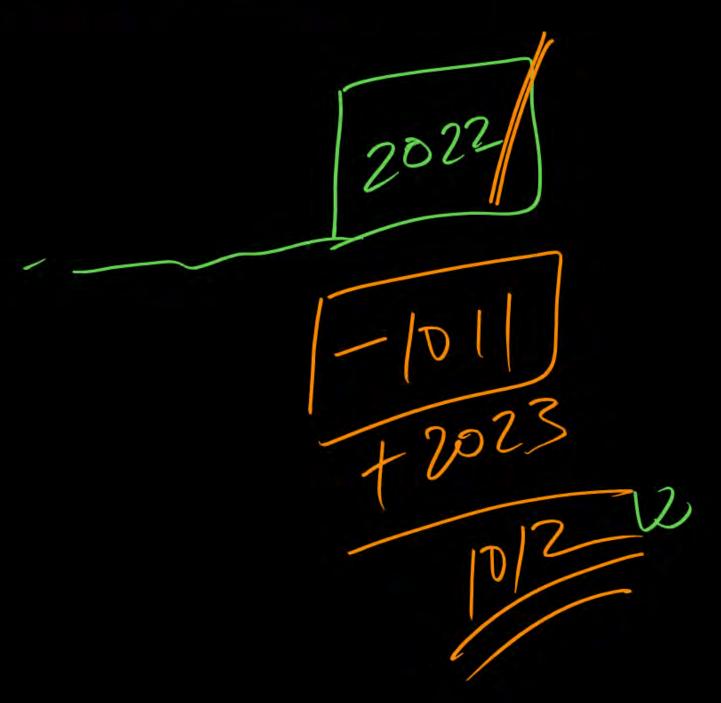












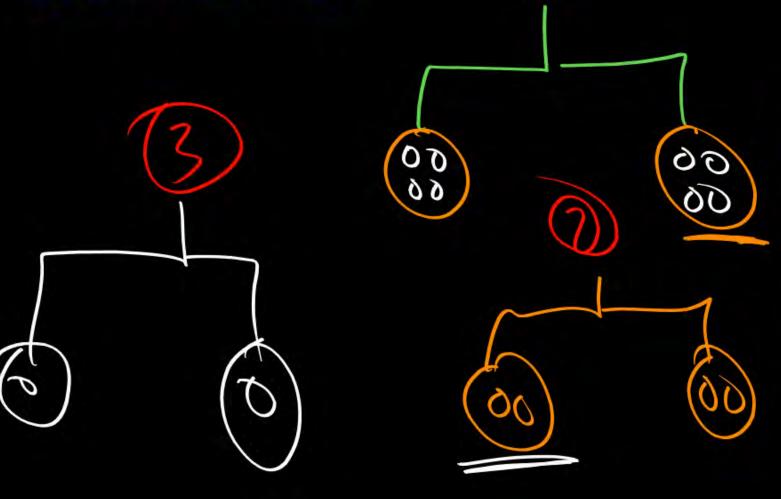


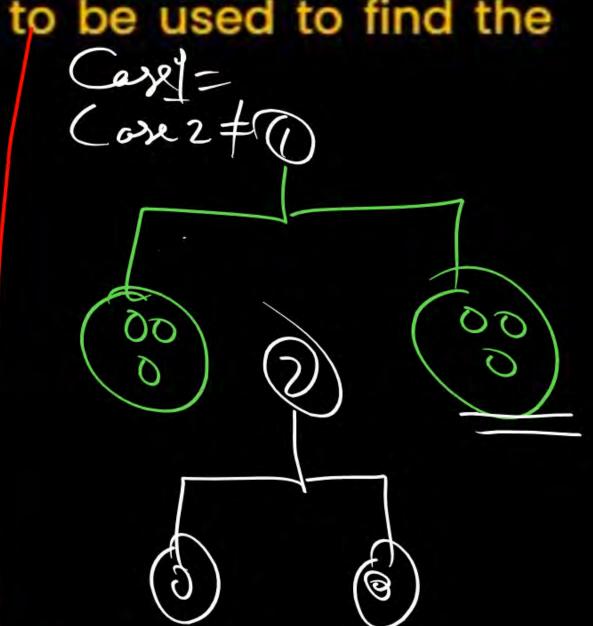
1! + 2! + 3! +



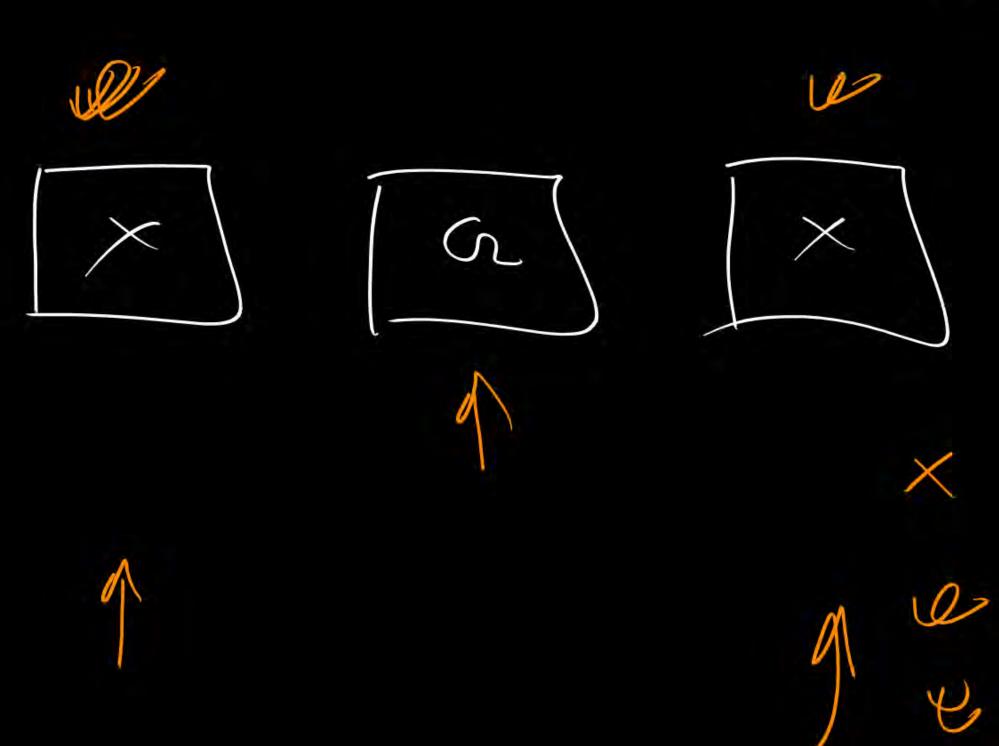
There are 8 balls of which one is defective. Given that the defective ball is of less weight and remaining are of equal weights. What are the minimum number of chances a common balance is to be used to find the

defective one?











A bag consist of 48 red colour balls, 16 green colour balls, 12 yellow colour balls, 14 grey colour balls, 11 black colour balls and 16 white colour balls. How many minimum number of balls are to be taken out from the bag randomly so that we get atleast two balls of same colour?

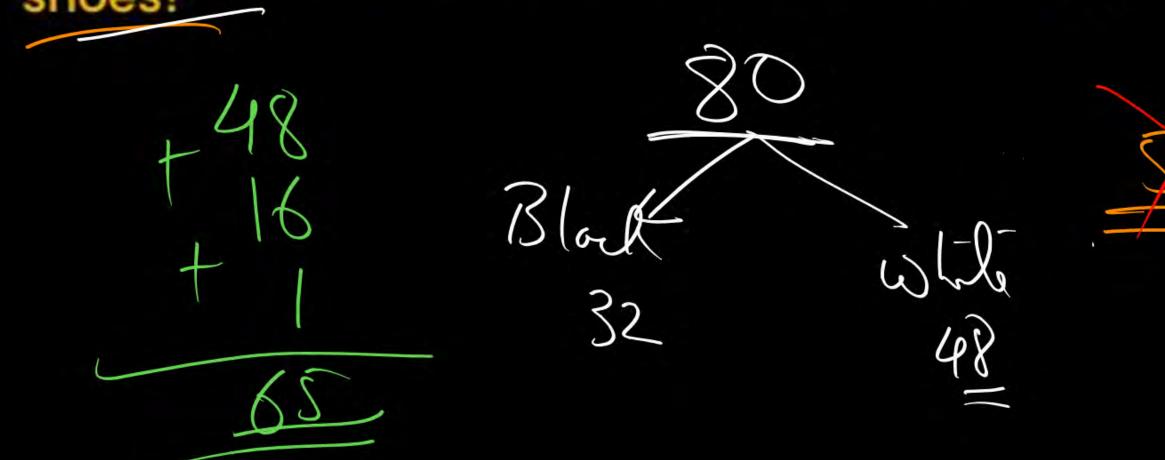
Q.

A shelf consist of 40 socks. 40% of these are black and remaining are white. How many minimum number of socks are to taken out from the shelf randomly (blindly), so that we get atleast two black socks?

Blak 24 8120 1120 24



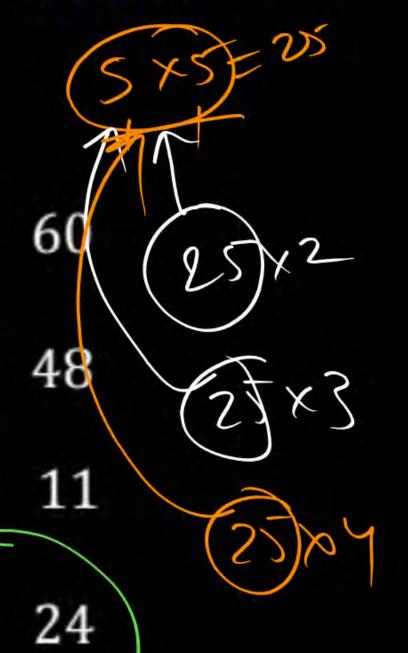
A box consist of 40 pairs of shoes of equal size. 40% of these are black and remaining are white. How many minimum number of shoes are to taken out from the box randomly, so that we get atleast a pair of black shoes?

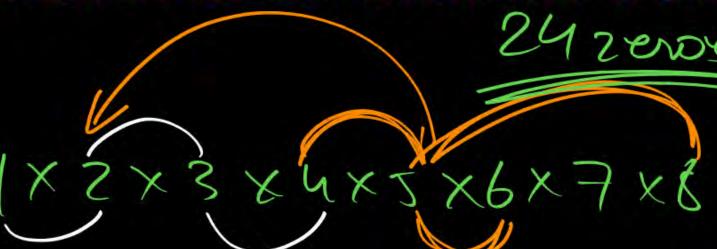




How many zeroes would be at the end in the answer

of 100!?

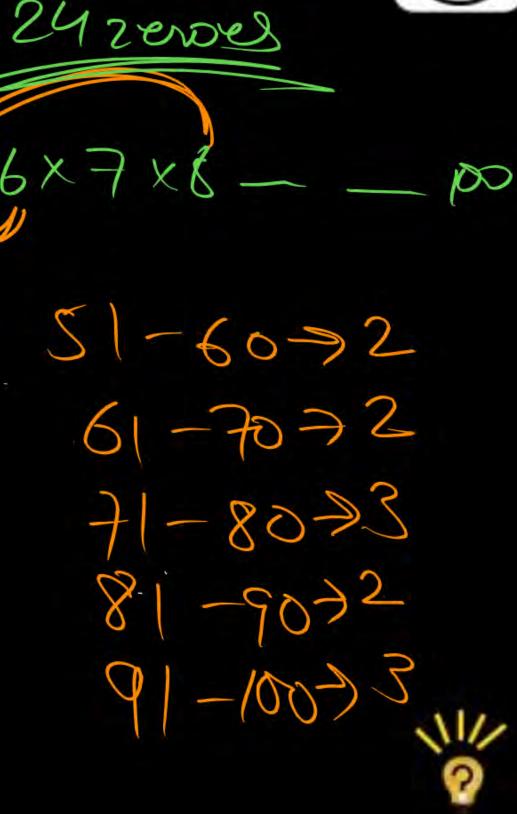




$$\frac{1-10>2}{11-20>2}$$

$$\frac{21-30>3}{21-40>3}$$

$$\frac{31-40>3}{41-50>3}$$



$$\frac{100}{5} = 20$$
 $\frac{20}{5} = 4$
 $\frac{4}{5} = 0$
 $\frac{24}{5}$



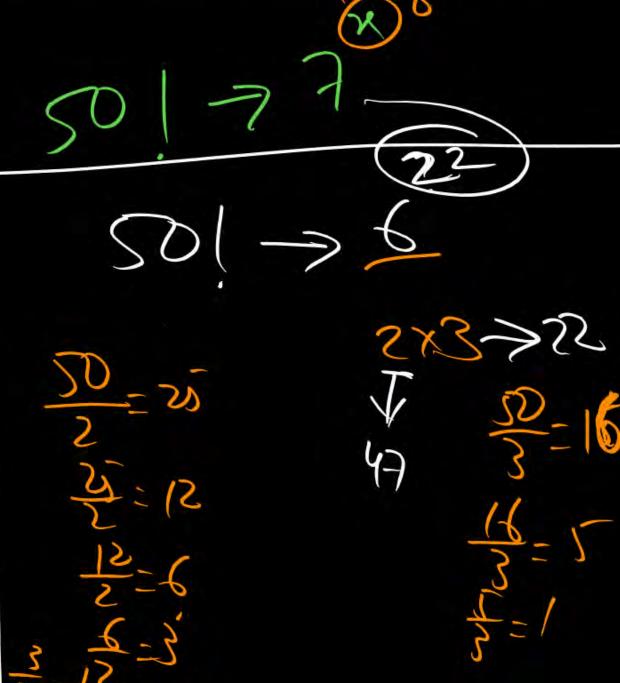


If 50! can be denoted maximum 7x, then the value of x is?

$$\frac{2}{7} = 7$$

$$\frac{2}{7} = 1$$

$$\frac{1}{7} = 0$$





Find the number of zeroes in following multiplication: 5x10x15x20x25.....x50?















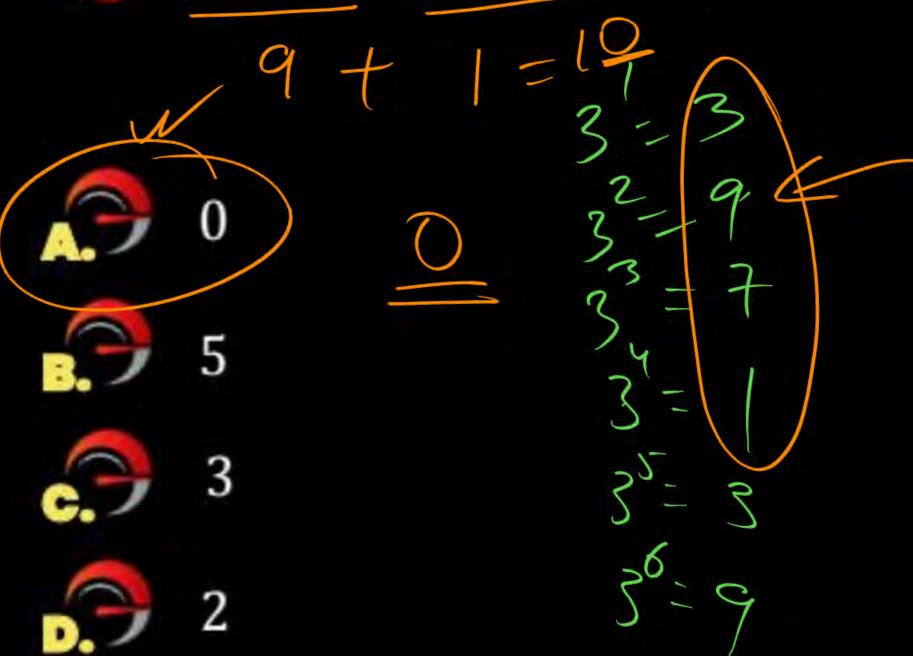


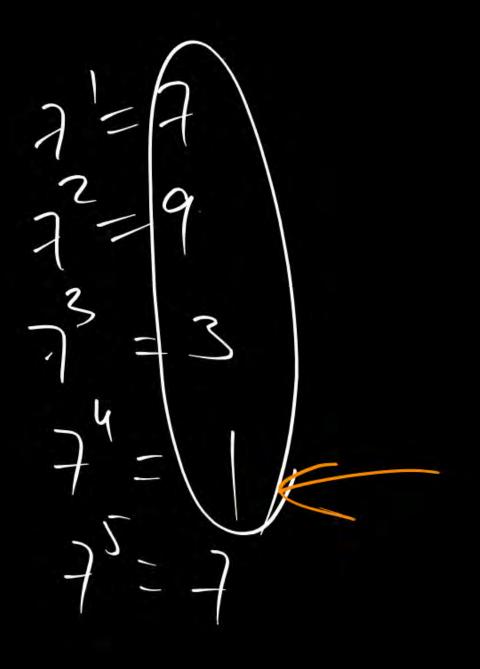
What would be the unit digit in the answer of:



Q. What would be the unit digit in the answer of: 2913 1902 + 1647 460 ?













What would be the unit digit in the answer of:

9326 397 + 1475 363

H881gnment



What is the greatest number of 4 digits that when divided by any of the numbers 6, 9, 12, 17 leaves a remainder of 1?













Jessi grmant



Which largest number of 5 digits is divisible by 99?

















Which one of the following is a composite number?

















