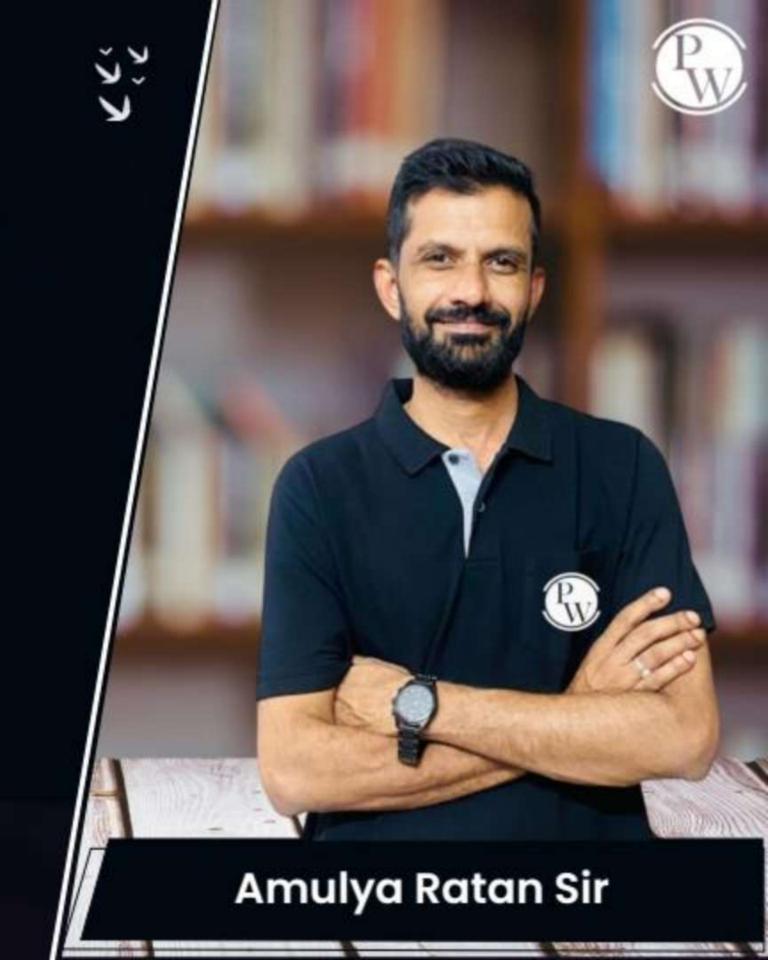
# ALL BRANCHES

**GENERAL APTITUDE** 

Quantitative Aptitude

**Super 1500** 

Lecture No.- 02











Topic

Question Based on Quantitative Aptitude

### **Topics to be Covered**





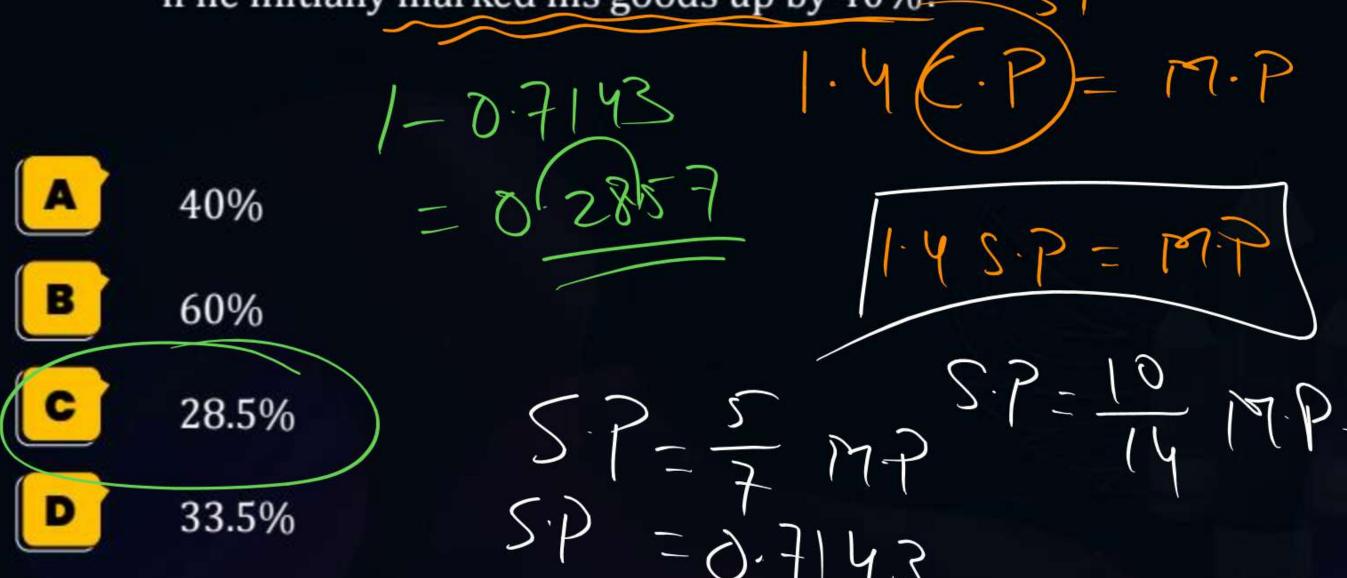




**Quantitative Aptitude** 



#Q. What is the maximum percentage discount (approximately) that a merchant can offer on his marked price, so that he ends up selling at no profit or loss, if he initially marked his goods up by 40%?





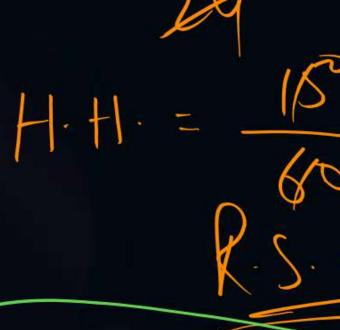
8366 [Mark 1]

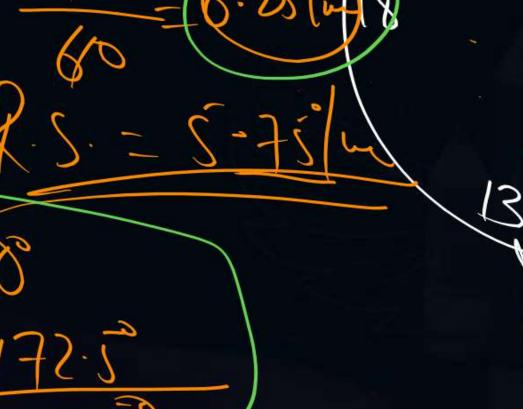


#Q. What would be the angle between minute hand and hour hand at 12: 30 in a 24 hour analog clock?

- A 165
- B 330
- C 82.5

7.5







#Q. At a dinner party every two guests used a bowl of rice between them, every three guests used a bowl of dal between them and every four used a bowl of meat between them. If altogether there were 65 bowls, then how many

24

$$\frac{2}{2} + \frac{x}{3} + \frac{x}{4} = 65$$

guests were there in the party?

x + x = 65 Rice Bowl =

16 В

60

84



#Q. There is a seven digit roll number with all different digits. If the digits at extreme right and extreme left are 5 and 6 respectively, then how many such roll numbers are possible?

such roll numbers are possible?

A 6720

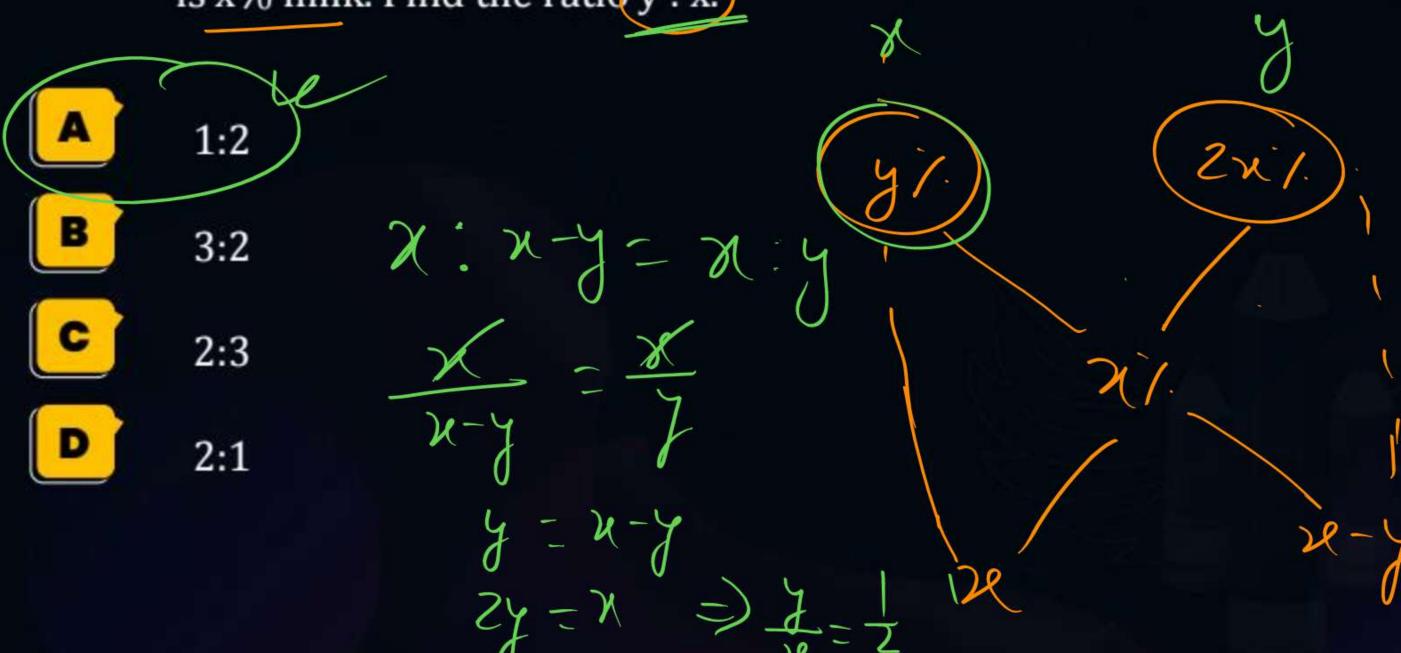
C 3024

S  $\times$  7  $\times$  6  $\times$  5  $\times$  9

D 604800



#Q. x litres of y% milk are mixed with y litres of 2x% milk to get a mixture that is x% milk. Find the ratio y: x.



Torain = x

[Mark 2]



#Q. At mid night, the engine of a train was exactly mid way of a tunnel which is three times as long as the train. It completely emerged from the tunnel at 12:00:35. The same train enters another tunnel at 3:03:08 which is five times as long as the previous tunnel. At what time the train would completely come out from the second tunnel?

A 3:05:14

3:06:52

3:04:32

3:04:44

D= 3x+x

7- 35 sue

 $Z = \frac{5 \times 31}{2 \times 31} \left( \frac{49}{2 \times 3} \right)$ 

D=15x+12=(15x)

2 = 5x

7= 16x x 70 = 221



An air cooler company decides to offer a variable discount depending on the #Q. season. In winter the discount is 37.5%, in the rainy season the discount is 30% and in summer it is 10% discount. The number of air coolers sold during these seasons is 24, 40 and 60 respectively. If each air cooler costs ₹10000 and a net profit of 25% is obtained, then what is the marked price

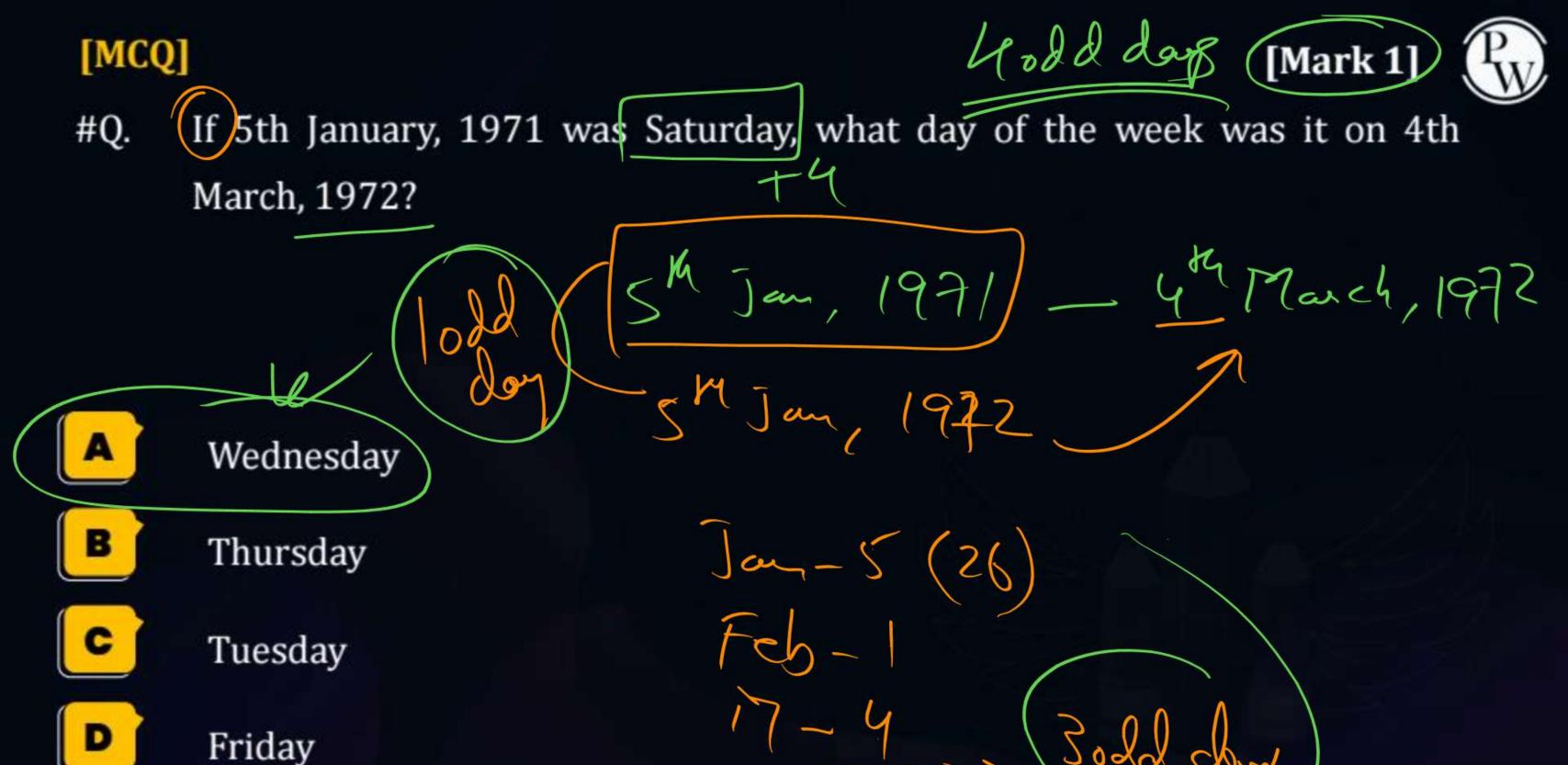
of each cooler (approx.)?

W= 24 × 0.625=/

C.P- 97x

₹ 17754

₹ 16826





#Q. A merchant sells his cloth at 25% profit. However he finds that on average for every 24 metre he sells 4 metre cloth get wasted. What is his overall

profit or loss%?

 $\frac{SP}{28} = 1.25 \times \frac{24}{28} = \frac{30}{28}$ 

8.33% loss

**B** 10.25% profit

6.25% profit

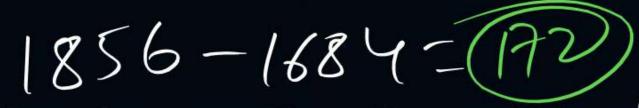
7.14% profit

7-142/P)



#Q. How many numbers greater than 1000 but less than 4000 can be formed with the digits 0, 1, 2, 3, 4 repetition of digits being allowed?

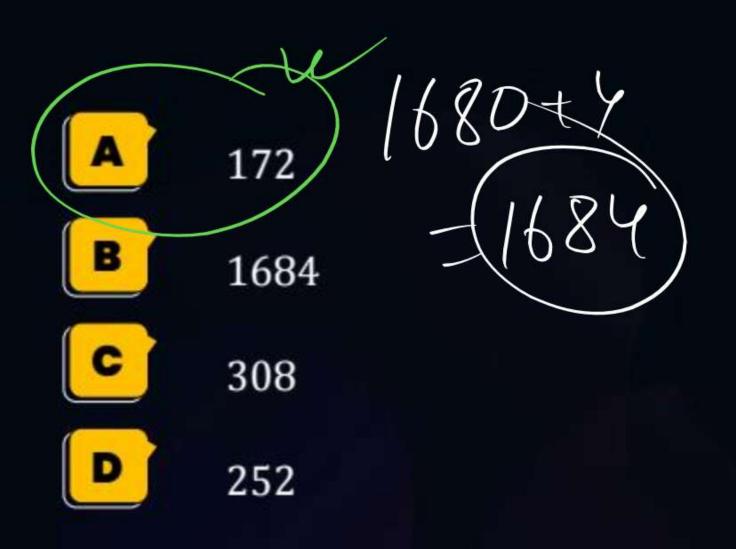




[Marks 2]



#Q. What is the least number that must be subtracted from 1856 so that the remainder when divided by 7, 12 and 16 (4?)



L.C.M. +, 12, 16 336



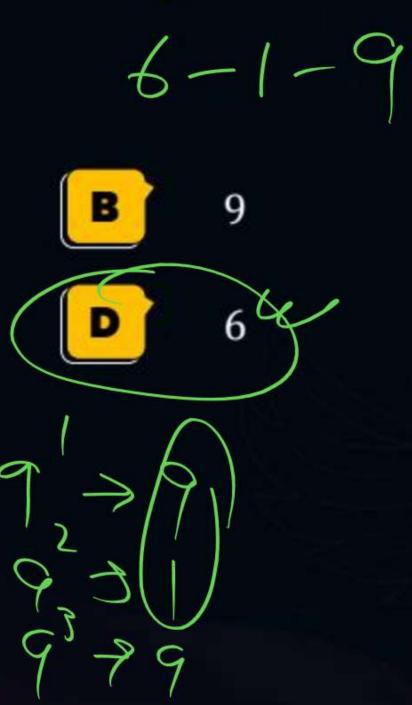
#Q. What is the unit digit in the answer of  $36^5$   $7^4$   $-9^3$ ?

6-10

A 7

C 1

6



7=7=9





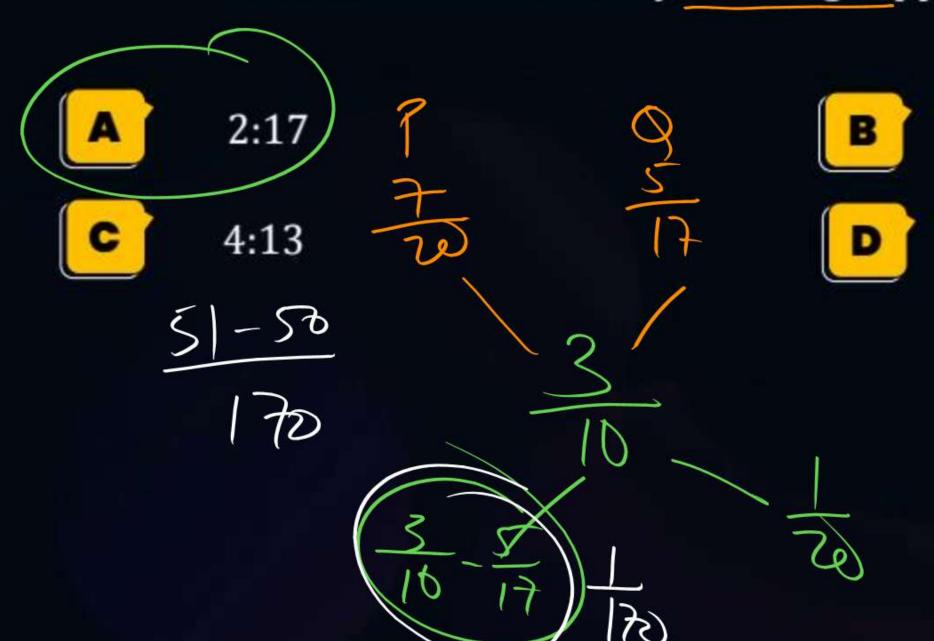
#Q. Anil, a milk vendor has certain quantity of milk to sell. After adding water to it, in what ratio the mixture and milk should be so as to gain 5% by selling the mixture at the cost price?

- A 1:12
- B 5:21
- 1:20

21:20



#Q. There are two alloys P and Q containing gold and copper in the ratio 7:13 and 5:12 respectively. In what ratio should the two alloys P and Q are to be mixed to form a new alloy R having copper and gold in the ratio  $\frac{1}{2}\sqrt[3]{\frac{1}{7}}$ ?



$$C: C_3 = \frac{1}{3}:\frac{1}{7}$$
3:7  $C: C_3 = \frac{1}{7}:\frac{1}{3}$ 

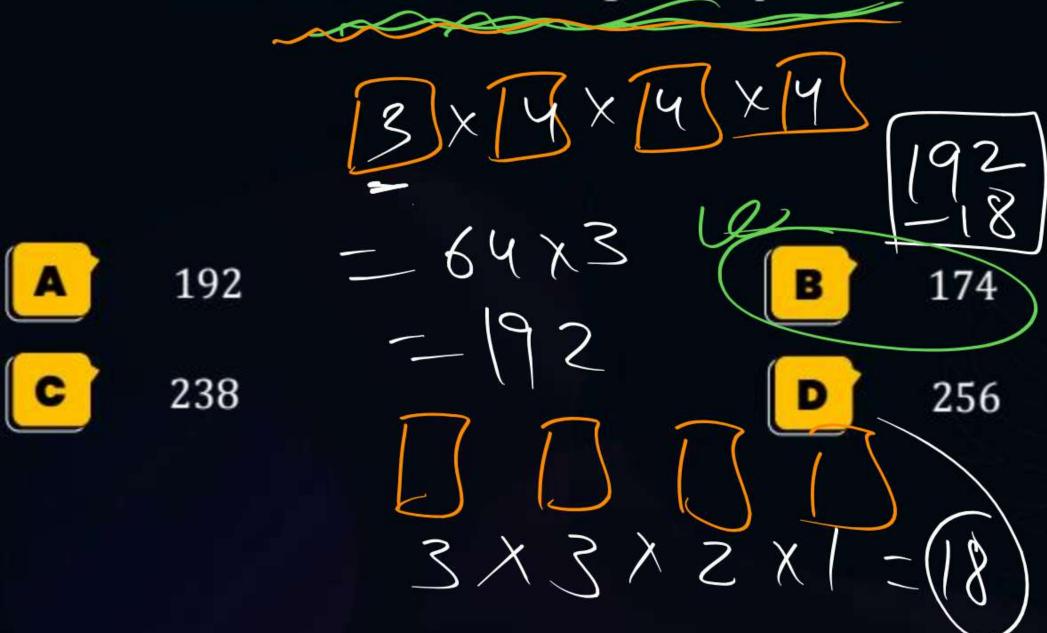
3:17







#Q. How many four digit numbers can be formed with the digits 0, 1, 3 and 8 so that at least one of the digits is repeated?





#### 2 mins Summary



Topic

Quantitative Aptitude





## THANK - YOU