$(\mathrm{x} / 100) \mathrm{y}=\mathrm{z}$;
$(\mathrm{x} / \mathrm{z})=(100 / \mathrm{y})$.
$(\mathrm{x} / \mathrm{z}) \times 100=100 \times(100 / \mathrm{y})=>1002 / \mathrm{y}$.

18 Two pipes A and B can fill a tank in 20 minutes and 40 minutes. If both pipes are opened simultaneously, after how much time should B be closed so that the tank is full in 18 minutes ?
A. 10 min
B. 9 min
C. 4 min
D. 7 min

- Your Answer :
- Correct Answer : C


## - Answer Justification :

Explanation:
A fill the tank in 1 minute $(20 \times 2=40)=2$ units
$B$ fill the tank in 1 minute $(40 \times 1=40)=1$ unit
For $18 \min (\mathrm{~A})=18 \times 2=36$ units
Remaining $=40-36=4$ units
Time for $B$ be closed so that the tank is full in 18 minutes $=4 / 1=4 \mathrm{~min}$

19 A box contains 10 white balls and 6 black balls. 2 balls are drawn at random. What is the probability that they are of the same colour?
A. $1 / 2$
B. 2
C. $1 / 3$
D. $1 / 5$

- Your Answer :
- Correct Answer : A


## - Answer Justification :

Explanation:
$10 \mathrm{C} 2=10 * 9 / 2=45$
$6 \mathrm{C} 2=6 * 5 / 2=15$
$16 \mathrm{C} 2=16 * 15 / 2=120$
$P=45+15 / 120=60 / 120=1 / 2$

