

$$(x/100)y=z;$$

 $(x/z)=(100/y).$
 $(x/z) \times 100=100 \times (100/y)=>1002/y.$

- 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 :
 - o 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(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 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. ½



- B. 2
- C. 1/3
- D. 1/5
- Your Answer:
- o Correct Answer: A
- Answer Justification :

Explanation:

10C2 = 10*9/2 = 45

6C2 = 6*5/2 = 15

16C2 = 16*15/2 = 120

 $P = 45 + 15/120 = 60/120 = \frac{1}{2}$