

27/01/24

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Q1 (a) A cricket team - - - - - during the year.

Sol.

Let the total number of matches played be = n

Given:

60% matches won

40% matches lost = 24.

$$(40\%) \times n = 24.$$

$$\frac{40}{100} \times n = 24$$

100

$$n = \frac{24 \times 100}{40}$$

$$\boxed{n = 60}$$

Total number of matches played = 60.

(b) If 30 persons - - - - - of sugar?

Sol.

Given: 30 persons use 40kg in 10 days

80 person uses 30kg in x days.

find the number of days

$$\boxed{\frac{M_1 D_1}{W_1} = \frac{M_2 D_2}{W_2}}$$

$$\frac{30 \times 10}{4x} = \frac{80 \times x}{120}$$

$$\frac{30 \times 300}{4 \times 80} = x$$

$$\boxed{30 = x}$$

So ~~40~~⁸⁰ people will consume 320kg of sugar in 30 days.

(c) Divide \$370 ... each part.

Sol:

let the number be x

First and third no. be $3x$ & $5x$

Second no. be $\frac{5x}{4}$

find the number x & subsequently each part.

$$3x + \frac{5x}{4} + 5x = 370$$

$$\frac{12x + 5x + 20x}{4} = 370$$

$$37x = 370 \times 4$$

$$x = \frac{370 \times 4}{37}$$

$$\boxed{x = 40}$$

$$\text{First no.} = 3x = 3(40) = 120$$

$$\text{Second no.} = \frac{5x}{4} = \frac{5(40)}{4} = 50$$

$$\text{Third no.} = 5(x) = 5(40) = 200.$$

(d) The arithmetic mean ----- was removed.

Sol:

Given

$$\text{Arithmetic mean of 6 Nos.} = 20$$

$$6 \times 20 = 120$$

$$\text{A.M of 5 No.} = 15.$$

$$5 \times 15 = 75.$$

The difference of arithmetic ^{mean} of 6 nos. and A.M of 5 no. will provide the number removed.

$$120 - 75 = 45.$$

45 was the number removed.

Qno. 2.

(d)

Ans Artificial Intelligence:

The intelligence incorporated by humans in machines to think and act like humans is called as artificial intelligence.

It is referred as (AI)

AI is smart enough due to the possession of unique feature of humans that is learning and problem solving.

2- Can AI outsmart humans:

Artificial intelligence has the potential and ability to outsmart humans in many fields. Though it is developed by the humans but it can possibly replace and outsmart humans.

(C) How does mobile phones work?

Ans:

Working of Mobile phone:

Mobile phones work on wireless communication system. If a person "A" using mobile phone device speaks his voice signals received by the receiver fitted in mobile phone and transmitted to the signal tower where it then forwarded to the ~~location~~ tower nearby the person "B". There again the signal received wirelessly by the mobile phone device of person "B" then transmitter convert it into voice signals.

Communication:

It is two way wirelessly communication system.