

Ques: (2)

Ans:

Given Data:

L.C.M of two numbers = 48

Ratio of numbers = 2:3

Sum of numbers = ?

$$\frac{2}{5} \times x = 48$$

$$x = \frac{48 \times 5}{2} = 120$$

$$\frac{3}{5} \times y = 48$$

$$y = \frac{48 \times 5}{3} = 80$$

So

$$x + y = 120 + 80 \\ = 200$$

Qno: 6 (B)

Ans:.

Given Data:.

$$l:b = 3:2$$

$$\text{Speed} = 12 \text{ km/h}$$

$$t = 8 \text{ minutes}$$

$$a = ?$$

First of all we will find
Distance:

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\frac{12 \times 1000}{60} = \frac{d}{8}$$

$$200 \times 8 = d$$

$$d = 1600$$

Now we will find l and b

$$l:b = 3:2$$

$$l = 160$$

$$l = \frac{3}{5} \times \frac{320}{160} = 960$$

$$b = \frac{2}{5} \times \frac{320}{160} = 640$$

Now, area can be
calculated as:

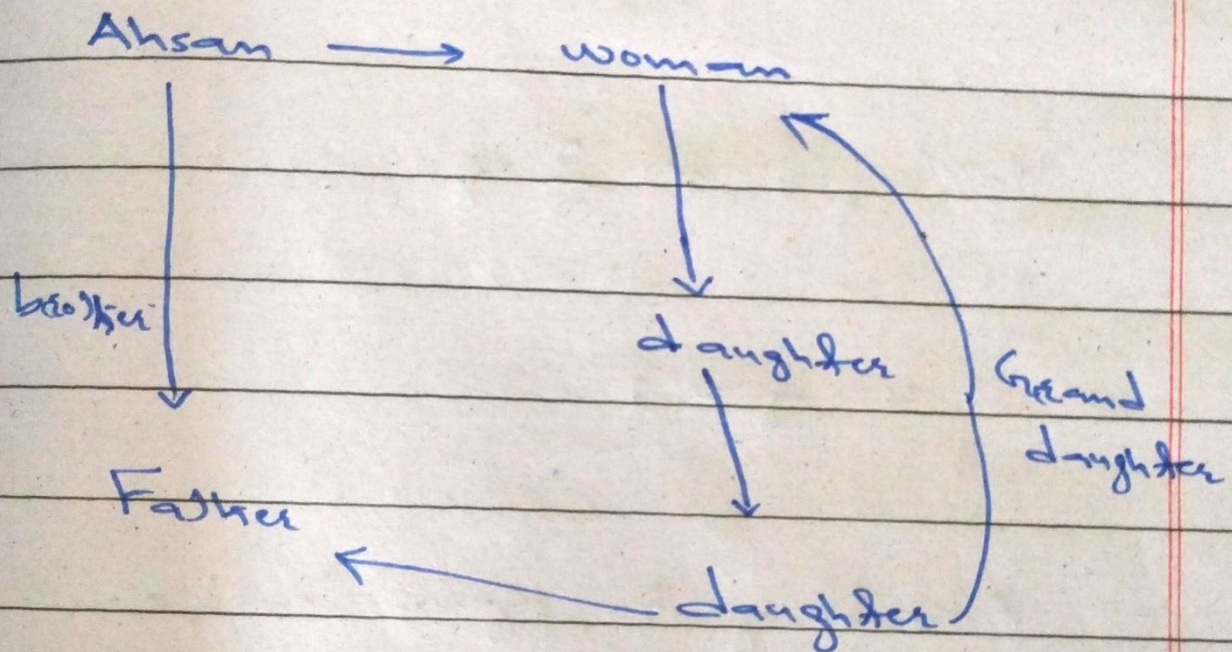
$$a = l \times b$$

$$= 960 \times 640$$

$$= 614400 \text{ m}^2$$

Qno: 6 (A)

Ans:



So from the given figure it can be assumed that ~~that~~ woman is the brother's mother-in-law of Ahsan.

Ques: (A)

Ans:

Given Data:

$$40\% \text{ of } x = \frac{2}{3} y$$

$$x : y = ?$$

According to given condition

$$\frac{40}{100} x = \frac{2}{3} y$$

$$\frac{2}{5} x = \frac{2}{3} y$$

~~$$x : y = \frac{2}{5} : \frac{2}{3}$$~~

$$\frac{x}{y} = \frac{2}{3} \div \frac{2}{5}$$

$$= \frac{2}{3} \times \frac{5}{2}$$

$$\frac{x}{y} = \frac{5}{3} \quad \text{or} \quad x : y = 5 : 3$$

Qno 7: (B)

Ans:.

Given Data:.

Sell 17 balls at 720

loss = cost price of 5 balls.

cost price = ?

Per ball price will

$$\frac{720}{17} = 42.35$$

loss = 5 balls price

$$= 5 \times 42.35$$

$$= 211.75$$

Q no 7: (c)

$$M = S + 24$$

Ans:.

$$M + 2 = 25 + 48$$

Given Data:.

$$M = S + 24 \rightarrow \text{ci,}$$

$$M + 2 = 2(S + 24) \rightarrow \text{cii,}$$

Solving eq: ci and cii

$$M + 2 = 2(S + 24)$$

$$M + 2 = 2(M)$$

$$M + 2 = 2M$$

$$\boxed{2 = M}$$

Putting value in eq: cii

$$2 + 2 = 2(S + 24)$$

$$4 = 2S + 48$$

$$2S = -44$$

$$\boxed{S = -22}$$

Q no 7: (D)

Ans:-

Given Data:

Rashid = 32 pages in 6 hours

Kamran = 40 pages in 5 hours

110 pages time taken = ?

	Pages	Time
Kamran	40	5
Rashid	32	6
book	110	?

Kamran work = 200

Rashid work = 192

By finding L.C.M
we will get 4800

Now

$$\frac{4800}{110} = 43.63$$

Q no 3: (D)

Ans:

*** Food Preservatives:**

The term food preservatives refers to Preservations of food from the contamination or environmental changes which changes the original taste of food and by preservation, food can be stored for long term.

Examples:

Salting of meat, fishes
cooling places for storage
of food such as refrigerator.

*** Food adulteration:**

The term food adulteration refers to the adding of substances in the food to make

it delicious or change the original taste for maximizing profit gain.

Examples:

Adding spices or artificial colours on the food.

* Food Contamination:

The term food contamination refers to the contamination of food by naturally process or due to environmental changes.

It is not done for profit maximizing because it is naturally occurring process.

Example:

Food spoilage due to extreme heat.

Taste of food changes due to weather.

* Food additives:

The term food additives refers to the addition of some substances in the food to keep it safe from spoilage.

Qno3: (Q)

Ans:

* Working of Optic Fibers:

Basically optic fibers consist of core, cladding. Actually, at the one end of optical fibers, the translator convert the message into signal and that signal passes through optical fiber. Inside optical fiber, signal totally reflect and reach at the other side of optical fiber. where signal is translated by receiver into message form such as audio, video etc.

* Working of Mobile Phone:

Mobile Phone has a SIM which is unique identifier of any user. When user press any number on the mobile, it will send signal to the nearest tower and further tower send that signal to the satellite. Satellite will find the number location and send signal to the nearest tower of particular number. Now tower will send the signal to the receiver. Mobile Phone receive the signal and convert it into the audio, message or video form.

Qno 3: (A)

Ans:

Global warming:

The term global warming refers to the increase in the average temperature of environment.

⇒ Solutions to reverse the global warming:

There are many solutions through which global warming can be reduced but their implementation is mandatory to reverse the global warming.

(A) Reduce the green house gases or fossil fuel usage:

Usage of fossil fuel leading towards climate change and global warming occurs. by reducing fossil fuel usage, global warming can be reversed.

(B) Increase in plantation:

Plantation can reduce the global warming.

(C) Transition to renewable energy sources:

Transition from non-renewable energy sources to renewable energy sources can reduce the global

warming.

(D) Reduce the number of vehicles:

Transition from private vehicles to public vehicles can reduce the emission of green house gases and will also reduce the global warming.

Ques: (D)

Ans:

* Plastics:

Plastics are the materials which are made by the humans for their day to day tasks. Bags used for carrying luggage are made up of plastics. Bottles used for soft drink are also made up of plastics.

* Applications of Plastics:

- (i) Plastics are not expensive due to reusable or recycle property.
- (ii) Plastics are used in the shops for carrying commodities.
- (iii) Plastics are also used in the medical field.

* Environmental risks of Plastics:

(A) Increase in solid waste:

Plastics are most commonly used material which will lead towards increase in solid waste which is detrimental for the environment.

(B) Contribute in global warming:

Burning of plastics in the open air can contribute in the global warming.

(C) New diseases will emerge:

Due to usage of

plastics, many diseases will
emerge in the environment
such as spread of cancer etc.

Qno 5: (B)

Ans:

* Bio Fuels:

The term bio fuels refers to the fuels extracted from the living sources. Bio fuels are the sources which are naturally available sources of fuel.