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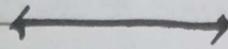
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BATCH :- 003

LMS ID :- 43600

SUBJECT :- General Science Ep
Ability.



PART-II

SECTION-II

QUESTION:- 6

A). Zahid and Basit invest ... ?

GIVEN DATA —

Zahid and Basit ratio = Z:B = 3:2

Charity amount = 5% of profit

Zahid's share = Rs. 8550

TO FIND:-

Total profit amount = ?

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Solution :-

$$\text{Total parts of share} = Z + B$$

$$= 3 + 2$$

$$= 5 \text{ total shares}$$

where as share of Zahid = 3

share of Basit = 2

Zahid's share amount = Rs. 8550

Each share = share amount of Zahid

Total shares of Zahid

$$= \frac{8550}{3}$$

$$= 2850$$

$$= \text{Rs. } 2850$$

Total profit distributed = Total shares \times Each share amount

$$= 5 \times 2850$$

$$= \text{Rs. } 14250$$

The equation of profit sharing amount =

Let Total amount of profit = x

So, the equation becomes -

$$x = 0.05x + 14250$$

\Rightarrow Total profit amount = 5% of profit to charity +

total amount distributed between Zahid and Basit.

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$$x - 0.05x = 14250$$

$$0.95x = 14250$$

$$x = \frac{14250}{0.95}$$

$$x = \text{Rs } 15000$$

The total profit is Rs. 15000.

B. If 20% of $a = b$, then b% of 20...?

GIVEN DATA —

$$20\% \text{ of } a = b$$

$$b\% \text{ of } 20 = \text{?}$$

To Find —

$$\text{Percent of } a = ?$$

$$\text{Let Value of } a = 100$$

then equation become

$$20\% \text{ of } 100 = 20 \text{ where } b = 20$$

$$\text{then } b\% \text{ of } 20 = ?$$

$$20\% \text{ of } 20 = 4$$

where b% of 20 is 4% of a.

c). Two numbers are in ratio of 2:3. --- ?

GIVEN DATA —

Two numbers ratio = 2:3

Product of LCM & HCF of (a & b) = 294

To Find :-

Find numbers ?

Solution :-

Let one number = x

second number = $3x$

$x = 2x$ & $3x$

Product of two numbers = LCM \times HCF

$$2x \times 3x = 294$$

$$6x^2 = 294$$

$$x^2 = 49$$

$$x = 7$$

So, the numbers are 14
and 21.

D. Find the total cost of ... ?

GIVEN DATA—

Price of one brick = Rs. 30

Dimension of brick = 25 cm × 11.25 cm × 6 cm

Dimension of wall = 8 m × 6 m × 22.5 cm

To Find—

Total cost of building wall = ?

Solution—

~~Area~~ Area of brick = 25 cm × 11.25 cm × 6 cm

$$= 2(lb + bh + lh)$$

$$= 2[(25 \times 11.25) + (11.25)(6)$$

$$+ (25 \times 6)]$$

$$= 2[281.25 + 67.5 + 150]$$

$$= 2[494.75]$$

$$= 989.50 \text{ cm}^2$$

Area of wall = 2[(8 × 6) + (6 × 0.225) + (8 × 0.225)]

$$= 2[48 + 1.350 + 1.8]$$

$$= 2[51.15]$$

$$= 102.30 \text{ m}^2$$

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Number of bricks used, Area of wall.

Area of Brick

$$= 102.3 \text{ m}^2$$

$$989.5 \times 10^{-4} \text{ m}^2$$

$$= 0.1034 \times 10^4$$

$$= 1034$$

The amount used for Brick Making = 1034×30

$$= \text{Rs. } 31020$$

The amount required to build
a wall is Rs. 31020.



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QUESTION - 7

A. A bus starts ... ?

Solution -

When Bus starts, Women number is
half of men number

Let the number of men = 30

Then the number of women = $\frac{30}{2}$

$$= 15$$

When Bus reaches at Rawalpindi.

Men left Bus = 10

Men in bus = $30 - 10 = 20$

Women Enter Bus = 5

Women in bus = $15 + 5 = 20$

Number of Men at Rawalpindi =

Number of Women at Rawalpindi =

$$20 = 20$$

In Beginning, 30 men and 15
women entered the bus.

B. In a Code language ... →

Solution :-

11 5 14 23 15 15 4 18 18 7 23 9 3 12
K E N W O O D : R R G W T C L

P A N A S O N I C =

A₁ B₂ C₃ D₄ E₅ F₆ G₇ H₈
I₉ J₁₀ K₁₁ L₁₂ M₁₃ N₁₄ O₁₅ P₁₆
Q₁₇ R₁₈ S₁₉ T₂₀ U₂₁ V₂₂ W₂₃ X₂₄
Y₂₅ Z₂₆

C. If 40% of a number ...?

Solution :-

40% of number = $\frac{2}{3}$ another number

Let one number = x

another is number = y

0.4 of x = $\frac{2}{3}$ y

$$0.4x = \frac{2y}{3}$$

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

$$y = 3 \times 0.4$$

$$x = \frac{20}{3}$$

$$y = 12$$

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

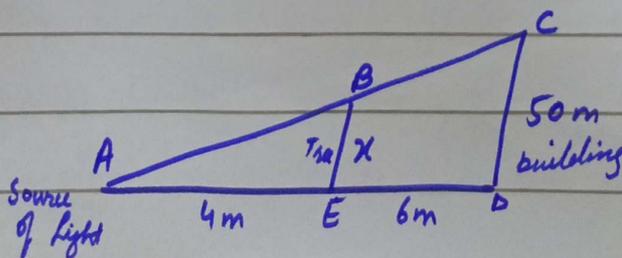
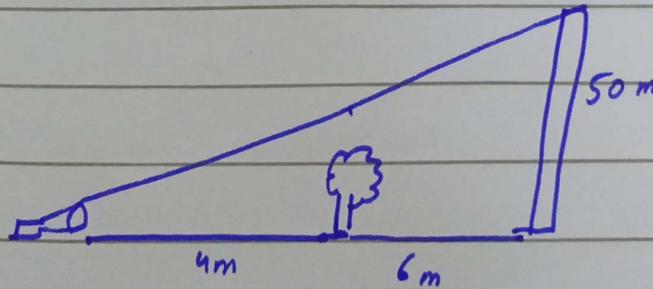
$$x = \frac{5}{3}y$$

$$x:y = 5:3$$



D. A source of light ... ?

Solution



SECTION-I

QUESTION 1-3

A. Explain Causes of Global Warming??

Global Warming :-

The global warming occurs due to green house effect. This is caused due to depletion of ozone layer which protect the earth from ultraviolet radiations.

CAUSES OF GLOBAL WARMING

The causes of global warming are given below

1. Deforestation
2. Carbon emission from vehicles
3. Burning of residue of crops
4. Chemicals and smoke emitted from industries

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5. Burning of coal in Energy sector
6. Forest fire
7. Nuclear emissions
8. Urbanization increased

Way forwards to Overcome Global Warming —

1. Usage of electric cars
2. Planting Tree
3. Shift towards clean energy
4. Design policy related to industries for not emitting of smoke.
5. Spread awareness among people.

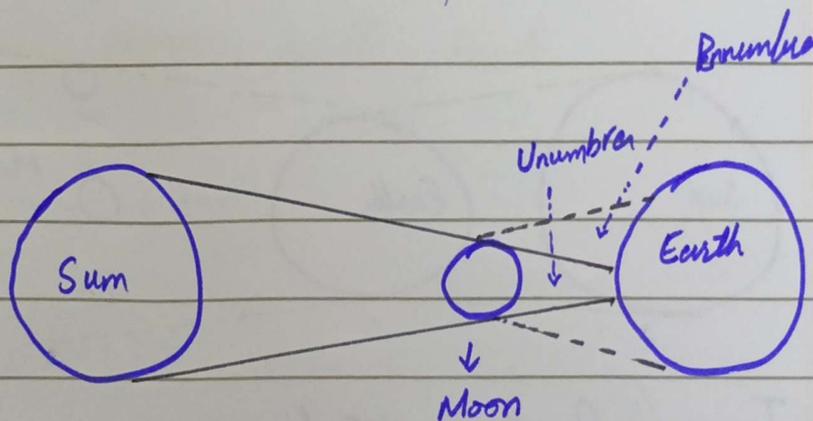


b. Explain the solar and lunar eclipse.

SOLAR Eclipse:—

It is defined as eclipse in which the light of sun is blocked by moon.

1. The moon comes between sun and earth.
2. It occurs once in 18 months.
3. It occurs at day time.



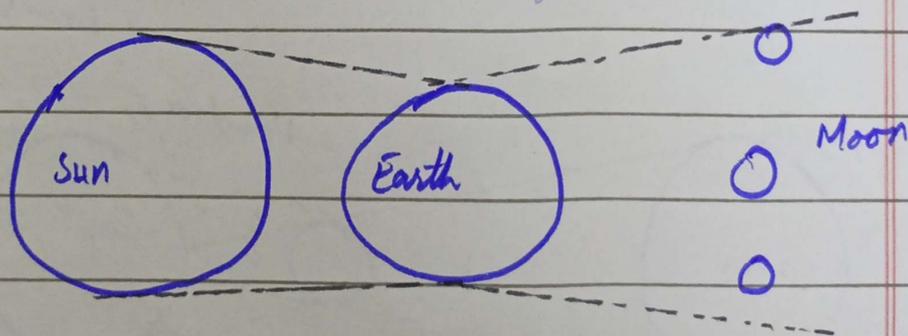
Types of Solar Eclipse:—

1. Unumbrer Eclipse
2. Penumbrer Eclipse.

LUNAR ECLIPSE

It is eclipse in which earth cast its shadow on moon.

1. Earth comes between sun and moon.
2. It occurs twice in a year.
3. It occurs at night time.



Types of Lunar Eclipse

1. Penumbral Lunar Eclipse
2. Partial Lunar Eclipse
3. Total Lunar Eclipse

Q. Describe the food preserv...?

FOOD PRESERVATION METHODS

The methods for preserving the food is given below

(i). Refrigeration

Food is kept at low temperature to slow the growth of bacteria.

e.g. ~~Bacteria~~, Milk, Fruits.

(ii). Freezing

Food is preserved at very low temperature to stop microbial activity.

e.g. Meat, fish, ice cream.

(iii). Drying

Removal of moisture from food which prevent bacteria growth.

e.g. dried chillies, dried fish.

4. Salting —

Salt draws out moisture from food.

e.g. cured meat & salted fish.

5. Canning —

Food is heated to kill microorganisms.

e.g. jams and soups.

QUESTION 1-5

a) - Trace the weakness - - ?

WEAKNESS IN Disaster Management in PAKISTANI —

The weakness in disaster management in Pakistan is due to following —

- 1- Lack in resources.
- 2- Unprofessional Administration
- 3- No proactive approach
- 4- Lack in technology
- 5- Lack in funds.

b). What is SWM? . . . ?

Solid Waste Management —

The solid waste management is defined as management which collect the waste and deposit that waste in desired place.

Importance of Solid Waste Management —

1. Make the environment clean.
2. Stop disease from spreading
3. Make energy from solid waste
4. Recycle the waste like plastic.
5. Produce Gases.

