

a. Faisal Mosque in Islamabad constructed by a Turkish architect with a worship halls of a certain geographical shape. Write the formula for the area of specific shape used as an outer view of worship halls.

The Faisal mosque is constructed in a Turkish architecture style. It is predominantly triangular in shape.

The formula of area is  $\frac{1}{2} \times \text{base} \times \text{height}$  whereas base.

b. In a mixture of 60 l, ratio of milk and water is 2:1. If ratio is to be 1:2 then what is the quantity of water to be further added?

$$2x + 1x = 60$$

$$3x = 60$$

$$x = \frac{60}{3}$$

$$x = 20$$

Milk =  $2x = 40$  l, Water =  $1x = 20$  l.

if 1:2 then as

$$40 : 80 = 1 : 2$$

then.  $20 + 60 = 80$  l.

60 l must be added to make it 1:2.

c. If A is the brother of B and B is the sister of C, C is the father of D. How D is related to A, D is being a male member?

A brother of B, B is sister of C

So, A, B and C are siblings.

If D is son of C.

Then D is nephew of A

as A is the brother of C.

Explain the logics in more detail

d. In a certain code ROAR is written as URDU. How URDU will be written in that code?

R and U have difference of three alphabets.

O and R, A and D, and R and U all have a difference of three alphabets so. URDU will be written as XUGX