

# GSA - (Math part)

DATE: \_\_\_/\_\_\_/\_\_\_

Name = Aqsa Ali Batch = 47.

(1)

$$10, 100, 200, 310, \underline{4}$$

$\underbrace{\quad}_{90}$      $\underbrace{\quad}_{100}$      $\underbrace{\quad}_{110}$      $\underbrace{\quad}_{120}$

Next number will be 430, as this number series follows subtraction method as  $100 - 10 = 90$ ,  $200 - 100 = 100$ ,  $310 - 100 = 110$ , each number is added by 10, in the same way  $110 + 10 = 120$ , Thus, the no will be 430

Ans) 10, 100, 200, 310, 430

Each no is addition obtained by subtracting the consecutive number starting 90.

(11)

$$3, 7, 23, 95, \underline{\quad}$$

$\underbrace{\quad}_{\times 2+1}$      $\underbrace{\quad}_{\times 3+1}$      $\underbrace{\quad}_{\times 4+1}$      $\underbrace{\quad}_{\times 5+1}$

Answer is 479

c)

$$\left. \begin{array}{l} \text{Rom's age} = n \\ \text{Nisha's age} = 15 + n \end{array} \right\} \text{Present age}$$

Nisha was 3 times as old as Rom's

$$\text{Rom's} = 3(n)$$

Consider nisha age  $y =$

So,  $y = 3(n)$

Nisha Current age =

Nisha age

~~$y = 15$~~

$$(15 + n) - 5 = 3(n - 5)$$

$$15 + n - 5 = 3n - 15$$

$$10 + n = 3n - 15$$

$$n - 2n = -15 + 10$$

$$-n = -5$$

$$\begin{aligned} \text{Nisha's age} &= 15 + 25 \\ &= 40 \end{aligned}$$

Q.7)

a)

$n \rightarrow$  20% increase of price

$$n + 20\% = 80$$

$$n + \frac{20}{100}n = 80$$

$$n + \frac{1}{5}n = 80$$

$$n + 1 = 80 \times 5$$

$$n + 1 = 400$$

$$N = 400 - 1$$

$$N = 399$$

Thus, original price was  $\boxed{399}$

b)

SISTER

would be written as

**CODRSDIC**

Given code was BROTHER and it is written as CEDGRNOA. In the same way we have to look closest possible. S is more closer B is more closer to A than G in the same way we have taken 1 step backward - for new code as R is more closer to C, E is more closer to D, respectively.

d)

Pizza is divided in 8 pieces

3 slices contain raisin.

Probability = ?

Sol

Probability =  $\frac{\text{Chance of an event to occur}}{\text{total possible outcomes}}$

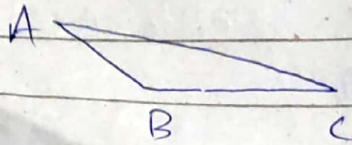
$$\text{Probability}(3) = \frac{3}{8}$$

Thus, answer is  $\boxed{\frac{3}{8}}$

c) Define

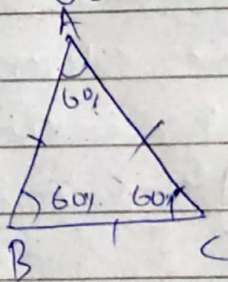
(i) Scalene Triangle

It is the triangle having all sides unequal and all angles are unequal.



(ii) Equilateral triangle

A triangle which has all sides equal. All angles should be equal to  $60^\circ$ .



(iii)

It is called right isosceles triangle. It has two equal angles of  $45^\circ$  each.

