GSA - (Math part)

General Instructions

Name = Aqsa Ali   Batch = 47.

(1)

1. Give numbering to headings
2. Do not write lengthy paragraphs. Write medium sized paragraphs with headings.
3. Do not use table for comparison and contrast questions.
4. Draw figures/diagram/flowchart where needed.
5. Start new question from fresh page.
6. Write unit of the answer in ability section
7. Explain mathematical steps and the reasoning for better score.
8. Change colour scheme for references to give them more visibility.
9. Manage time well.
10. Wide page borders are discouraged. Should be reasonable.
11. Avoid writing wrong references.
12. Give more weightage to expressedly asked part/s of the question.

(handwritten, partly obscured by red marks)

$100 \quad 200 \quad 210$

110   120

Next number will be 430, as ... Subtraction

... $300 - 100 = ...$, each number ... the same way. Thus, the no will be 430.

✓ 430

... Subtracting the consecutive number starting 90.

(11)   3, 7, 23, 95, ___

$\times 2 + 1 \quad \times 3 + 1 \quad \times 4 + 1 \quad \times 5 + 1$

Answer is 479

Wrong reasons

c)

Romi age $= n$
Nisha's age $= 15+n$ ⎤ Present age

Nisha was 3 time as old as
Romi $= 3(n)$
Consider nisha age $y=$
So, $y = 3(n)$

Nisha Current age $=?$

Nisha age
$y = 5$
$(15+n) - 5 = 3(n-5)$
$15 + n - 5 = 3n - 15$
$10 + n = 3n - 15$
$n - 2n = -15 + 10$
$+n = +25$
Nisha's age $= 15 + 25$
$= 40$

(0:7)

9)
$n \rightarrow 20\%$ increase of price
$n + 20\% = 80$
$n + \dfrac{20}{100} = 80$
$n + \dfrac{1}{5} = 80$
$n + 1 = 80 \times 5$
$n + 1 = 400$

$$n = 400 - 1$$
$$n = 399$$

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

b)

SISTER

would be written as

CODRSIVG

Given code was BROTHER and it is written as COD SSNCOA. In the same way we have to look closest possible. It 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 Q, E is more closer to D, respectively

d)

Pizza is divided in 8 pieces
3 slices contain raisin.
Probability=?

Sol

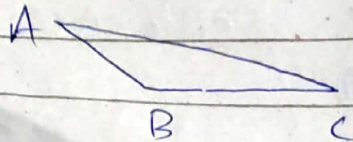$$\text{Probability} = \frac{\text{Chance of an event to occur}}{\text{total possible outcomes}}$$

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

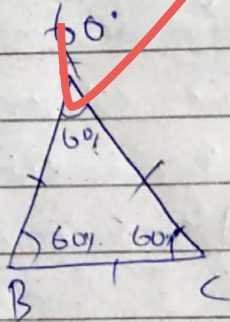$\boxed{\text{Thus, answer is } \frac{3}{8}}$

c) Define

(i) Scalene Triangle

It is the triangle having all side unequal and all angle are unequal.

A

B   C

(ii) Equilateral triangle

A triangle which have all sides equal. All angle should be equal to 60°.

60°

60°   60°

B   C

(iii)

It is called right isocete isosceles triangle. It has two equal angles of 45 degrees each.

C

45°

45°

A   B

35