

Section - II

Q: NO: 07 "A"

Data:-

Price raised = 20%

Price after raising = 80 Rs

Original Price = ?

Solution:-

To find original price one has to calculate 20% of 80.

Amount raised = $\frac{20}{100} \times 80 = 16$ Rs

Original price = $80 - 16 = 64$ Rs

The original price of the shirt was Rs 64.

Q: NO: 07 "B"

Data:

BROTHER is written as QDGSNQA

SISTER = ??

Solution:

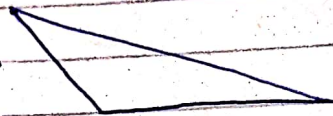
SISTER = QDSRHR

In this code, it is reverse order followed for each alphabet. It is one step backward of the given code starting from last letter (R) to the first (S).

Q: NO: 07 "C"

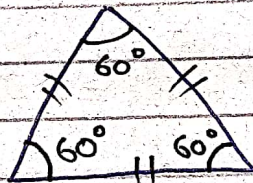
Scalene Triangle: A type of triangle whose all three sides ~~are~~ and angles are different is called scalene triangle.

Example:



Equilateral Triangle: A Triangle whose all three sides as well as angles are equal. (60°)

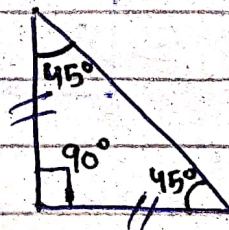
Example:



A triangle which is Isosceles and Right at the same time:

An Isosceles triangle is a triangle whose two sides and two angles are equal, and a Right angle triangle is the triangle whose one angle is 90° .

Example:



This is a triangle which is Isosceles and Right at the same time.

Q : NO : 07 "D"

Data :-

Pizza divided = 8 slices

Slices contain raisin = 3

Probability of Shiza picking a raisin slice = ?

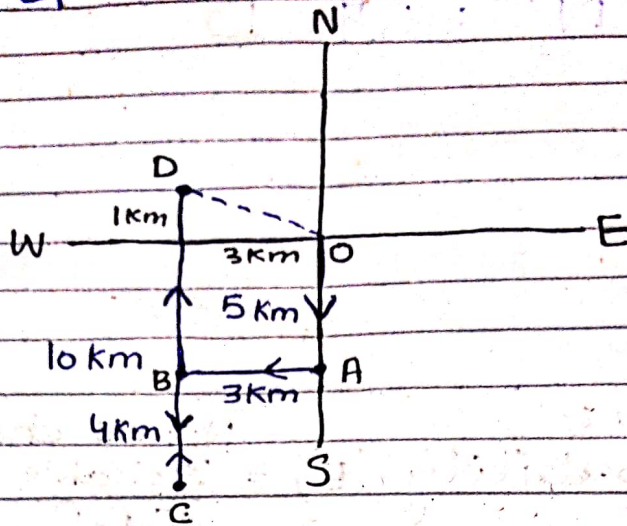
Solution :-

$$\text{Probability (E)} = \frac{\text{No. of chances of Probable event}}{\text{Total possible outcome}}$$

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

The probability that Shiza will pick a slice with raisin is $\frac{3}{8}$

Q : No : 08 "A"



$$H^2 = P^2 + B^2$$

$$H^2 = (1)^2 + (3)^2$$

$$H^2 = 1 + 9 = 10 \text{ Km}$$

$$H = \sqrt{10} = 3.16 \text{ Km}$$

The man is 3.16 km away from his starting point

The man is in North-West direction of his starting point.

Q : No : 08 "B"

The first five prime numbers are :
2, 3, 5, 7, 11

The cubes of first five prime numbers are :

$$2^3 = 8$$

$$3^3 = 27$$

$$5^3 = 125$$

$$7^3 = 343$$

$$11^3 = 1331$$

The arithmetic mean of cubes of 1st five prime numbers is given by

$$= \frac{8 + 27 + 125 + 343 + 1331}{5}$$

$$= \frac{1834}{5} = \boxed{366.8} \text{ Answer.}$$

Q : No : 08 "C"

Data :

$$\text{Men} = 50$$

$$\text{Construction} = 20 \text{ km}$$

$$\text{Days} = 40$$

$$\text{Men} = 70$$

$$\text{Same length} = 20 \text{ km}$$

$$\text{Days} = ??$$

Solution :

Men	Length	Days
50	20	40
50 70	20	x

$$\frac{50}{70} \times \frac{20}{20} = \frac{x}{40}$$

$$\frac{5}{7} \times 40 = x$$

$$x = \frac{200}{7} = 28.57 \text{ days}$$

70 Men will construct same length of road in $\boxed{28.57 \text{ days}}$

Q : NO : 08 "D"

Data :-

Property left = 1750,000 Rs

Debt = 150,000 Rs

Share of son = $2x$

daughter's share = $1x$

Solution :-

Property to be distributed =
 $= 1750,000 - 150,000 = 1600000$

Son's share

$$\frac{2}{3} \times 1600000 = 1066666.66 \text{ Rs}$$

Daughter's share

$$\frac{1}{3} \times 1600000 = 533333.33 \text{ Rs}$$