SHAHZAMAN
336 - BATCH
29023 - LMS
CSS - SPECIAL

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 = ??

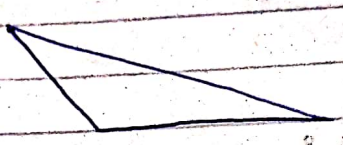
Solution :
SISTER = QDSRHR

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"

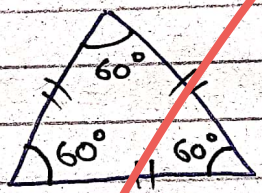
Scalene Triangle: A type of triangle whose all three sides and angles are different is called scalene triangle.

Example:



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

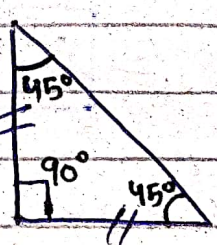
Example:



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 3/8

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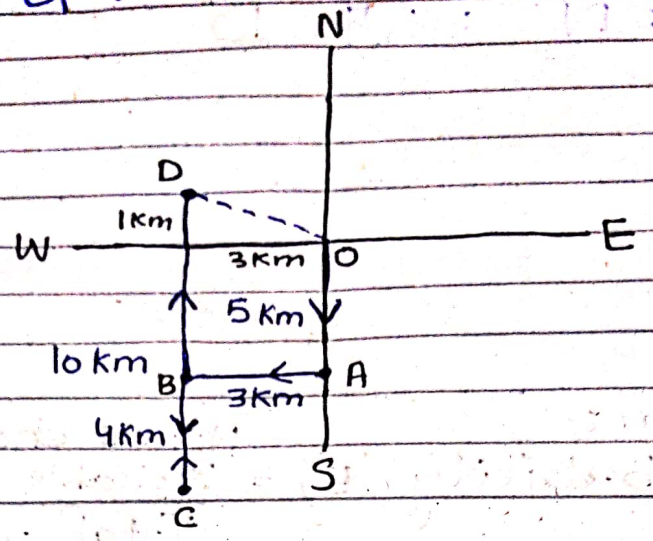
Q : No : 08 "A"



$$H^2 = P^2 + B^2$$
$$H^2 = (1)^2 + (3)^2$$
$$H^2 = 1 + 9 = 10 \text{ Km}$$
$$H = \sqrt{10} = 3.16 \text{ Km}$$

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

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

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

Q : NO : 08 "C"

Data:

Men = 50
Construction = 20 km
Days = 40

Men = 70
Same length = 20 Km
Days = ??

Solution:-

Men	Length	Days
50 ↓	20 ↑	40 ↑
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 Rs

Daughter's share

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