

## Microsoft Aptitude & Reasoning

1. On a particular day, sweets were to be equally distributed among 960 students of a school. However, on that particular day 360 students remained absent, Hence each student present on that day got three sweets extra. Had all 960 students remained present that day, how many sweets would each, student have got?

A)3

B)5

C)7

D)8

Answer : Option B.

Let number of sweets per student = X

According to the given conditions, we have

$$960X = 600(X+3)$$

$$X = 5$$

2. What should come in place of the question mark (?) in the following number series ?

9 10 24 81 340?

A)1376

B)1780

C)1570

D)1725

Answer : Option D.

Here, the pattern follows

$$9 \times 1 + 1 = 10$$

$$10 \times 2 + 4 = 24$$

$$24 \times 3 + 9 = 81$$

$$81 \times 4 + 16 = 340$$

$$\text{Similarly, } 340 \times 5 + 25 = 1725$$

3.What would be the compound interest accrued on an amount of Rs9,000/- at the rate of 11 p.c.p.a. in two years ?

A)Rs.2088.90

B)Rs.2140.90

C)Rs.2068.50

D)Rs. 2085

Answer : Option A.

$$CI = A - P$$

$$CI = 9000 \times (1 + 11/100)^2 - 9000 = 2088.90$$

4.If  $43x + 43y = 4816$ , what is the average of x and y ?

A)56

B)112

C)62

D)124

Answer : Option D.

Divide the given equation by 43, we get,  $x + y = 112$

$$\text{Average} = (x + y)/2 = 112/2 = 56$$

5.Radius of a circular garden is 7 meter more than length of a rectangle whose perimeter is 364 meter and breadth is 84 meter. What will be cost of fencing the garden (only at the circumference), if the cost of fencing is Rs 8 per meter?

A)Rs. 5,456/-

B)Rs. 6,144/-

C)Rs. 5,296/-

D)Rs. 5,280/-

Answer : Option D.

If the Length of rectangle = L meters

Then, according to the question,

$$2(L + 84) = 364$$

$$\Rightarrow L = 98$$

Radius of circle =  $98 + 7 = 105$  meters

Circumference of the circle =  $2\pi r = 660$

Cost of fencing =  $660 \times 8 = \text{Rs } 5280$

6. In order to pass in an examination, a student is required to get 280 marks out of the aggregate marks. Hema got 264 marks and was declared fail by 2 percent. What is the minimum passing percentage of the examination ?

A) 33%

B) 35%

C) 40%

D) 44%

Answer : Option B.

Let maximum marks =  $X$

Then, 2% of  $X = 280 - 264 = 16$

$\Rightarrow X = 800$

Then minimum passing %age =  $(280 / 800) \times 100 = 35$

2. Choose the odd one

A. Orissa

B. Gujrat

C. Madhya Pradesh

D. Maharashtra

Answer – C. Madhya Pradesh

Explanation:

Except for Madhya Pradesh, all other states have the coastline

7. Statement: Wind is an inexhaustible source of energy.

Assumptions: I. Wind is one of the many sources of energy.

II. Wind is a source of energy which can be used forever.

A. If only assumption II is implicit.

B. If either I or II is implicit.

C. If neither I nor II is implicit.

D. If only assumption I is implicit.

Answer – A. If only assumption II is implicit.

Explanation:

The assumption on I is not implicit because the wind might be the only source of energy. Assumption II can be easily derived from the statement. “Inexhaustible” means incapable of being used entirely.

8. In a group of 6 students P, Q, R, S, T and U each one having different height. P is taller than T but not as tall as U. Q and U are not the tallest and also R is the shortest. Who is the tallest among them?

A. S

B. Q

C. U

D. P

Answer – A. S

Explanation:

$S > (Q,U) > P > T > R$

9. Pointing to a photograph, Sahil said, “She is the mother of my son’s wife’s daughter”. How is Sahil related to a lady?

A. Father

B. Father-in-law

C. Son

D. Uncle

Answer – B. Father-in-law

Explanation:

My son’s wife’s daughter will be my granddaughter, and my granddaughter’s mother will be my daughter-in-law. So I m father-in-law of a lady.

10. A woman walking with a boy meets another woman and on being asked about her relationship with the boy, she says, “My maternal uncle and his maternal uncle’s maternal uncle are brothers.” How is the boy related to the woman?

A. Grandson

B. Son or Nephew

C. Nephew

D. Son

Answer – B. Son or Nephew

Explanation:

This says that the woman's mother has 2 brothers. And they are women's maternal uncle.

The boy can be son too and son of a woman's brother too. km/hr. can surely do well