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Mixed reasoning questions for CGL tier 1 and SSC 10+2 exams

MIXED REASONING QUIZ 2

Directions: Read the following questions carefully and choose the right answer.

1. From the following alternatives select the word which can't be formed by using the letters of the word.

ESTRANGEMENT

A. TANGENT

B. GERMAN

C. TREATMENT

D. ENTREAT

2. In a certain code, EAT is written as 318 and CHAIR is written as 24156. What will TEACHER be written as ?

A. 8312346

B. 8321436

C. 8312436

D. 8313426

3. If '+' means 'divided by', '-' means 'added to', '×' means 'subtracted from' and '÷' means 'multiplied by' then $24 \div 12 - 18 + 9$?

A. -25

B. 0.72

C. 15.30

D. 290

4. Find the missing number from the given alternatives.

6	8	2	20
7	2	4	30
8	7	6	?
5	5	9	50

A. 55

B. 40

C. 60

D. 50

5. In a class of 45 students, Sohan is placed eighth from the bottom, whereas Mohan is placed tenth from the top. Rohan is placed exactly in between the two. What is Rohan's position from Mohan?

A. 14th

B. 13th

C. 15th

D. 10th

6. Ritesh starts from P and walks 2 km east up to Q and turns southwards and walks 1 km up to R. At R he turns towards east and walks 2 km up to S. He then turns northwards and walks 4 km to U. How far is he from his starting point?

A. 3 Km

B. 4 Km

C. 5 Km

D. 6 Km

7. In question, some statements are given, followed by two conclusions I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements. Indicate your answer.

Statements:

All mobiles are laptops.

Some laptops are tablets.

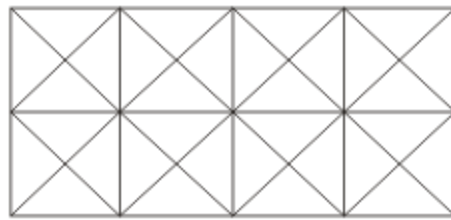
Conclusions:

I. All tablets being mobiles is a possibility.

II. All laptops being tablets is a possibility.

- A. If only conclusion I follow
- B. If only conclusion II follow
- C. If either conclusion I or conclusion II follows
- D. If both the conclusions follow

8. Count the number of squares in the given figure.



A. 11

B. 21

C. 24

D. 26

9. Which of the following diagrams best depicts the relationship among Protons, Electrons and Atoms?

A.



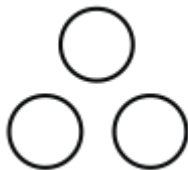
B.



C.



D.



10. 15 16 ? 29 45

A. 20

B. 17

C. 19

D. 22

Correct answers:

1	2	3	4	5	6	7	8	9	10
C	C	D	A	A	C	D	C	B	A

Explanations:

1.

As in the word 'ESTRANGEMENT' we have only two T's, we can't form 'TREATMENT' (which have three T's) using the letters of the given word.

Hence, option C is correct.

2.

It is a question of direct Letter to Number coding.

Letter EATCHIR

Code 3182456

The code for TEACHER will therefore be 8312436.

Hence, option C is correct.

3.

$$24 \div 12 - 18 + 9 ?$$

After changing the signs and applying the rule of BODMAS, we get

$$\Rightarrow 24 \times 12 + 18 \div 9$$

$$= 288 + 2$$

$$= 290$$

Hence, option D is correct.

4.

In this formation, the first number in the first column is getting multiplied by the number in the third column and the resultant number is being added to the number in the second column to give the number in the fourth column.

$$\text{First row } 6 \times 2 + 8 = 20,$$

$$\text{Second row } 7 \times 4 + 2 = 30,$$

$$\text{Fourth row } 5 \times 9 + 5 = 50$$

$$\text{Therefore, third row } 8 \times 6 + 7 = 55,$$

Hence, option A is correct.

5.

$$\text{Number of students between Sohan and Mohan} = 45 - (8 + 10) = 27$$

Clearly, there are 27 students between Sohan and Mohan. It's further given that Rohan's position is exactly between the two.

$$\therefore \text{Rohan's position} = \frac{\text{Total no. of students between Sohan and Mohan} + 1}{2}$$

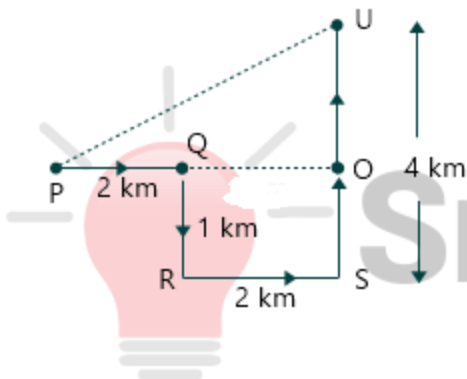
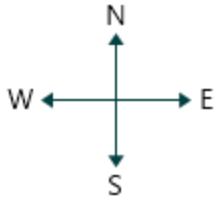
$$= \frac{27 + 1}{2} = 14$$

Therefore the number of students between Rohan and Mohan is 13, and on counting, Rohan's position will be 14th from Mohan.

So, Rohan's position is 14th from Mohan.

Hence, option A is correct.

6.



$$PU^2 = PO^2 + OU^2$$

$$= (4)^2 + (3)^2 = 16 + 9 = 25$$

$$\therefore PU = \sqrt{25} = 5 \text{ km}$$

Hence, option C is correct.

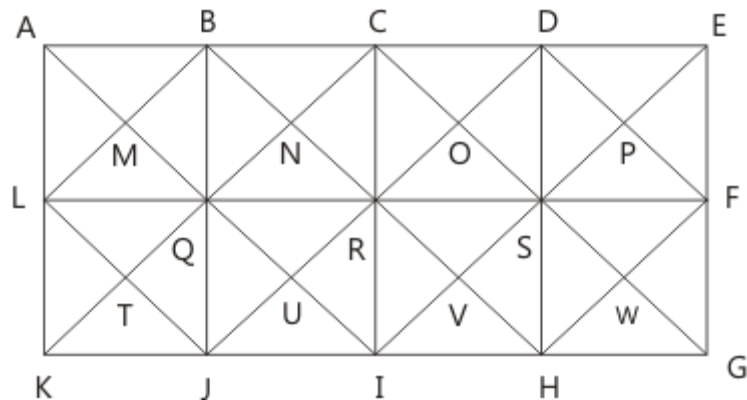
7.

There is no negative statement. Thus the possibilities exist in I and II.
Hence, both the conclusion I and II follow.

Hence, option D is correct.

8.

We shall label the given figure as shown.



The squares composed of two components each are BNQM, CORN, DPSO, MQTL, NRUQ, OSVR, PFWS, QUJT, RVIU and SWHV i.e. 10 in number.

The squares composed of four components each are ABQL, BCRQ, CDSR, DEFS, LQJK, QRIJ, RSHI and SFGH i.e. 8 in number.

The squares composed of eight components each are BRJL, CSIQ and DFHR i.e. 3 in number.

The squares composed of sixteen components each are ACIK, BDHJ and CEGI i.e. 3 in number.

Thus, there are $10 + 8 + 3 + 3 = 24$ squares in the figure.

Hence, option C is correct.

9.

Protons and Electrons are entirely different. But, both are parts of Atoms.



Hence, the answer is B.

10.

$$15 + 1^2 = 16$$

$$16 + 2^2 = \mathbf{20}$$

$$20 + 3^2 = 29$$

$$29 + 4^2 = 45$$

Hence, option A is correct.



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