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Symbols and notation - Aptitude preparation Questions and Answers

(Directions Qn 1 - Qn 4): Read the following information carefully and answer the questions that follow :

A + B means A is the son of B; A – B means A is the wife of B; A*B means A is the brother of B; A/B means A is the mother of B and A = B means A is the sister of B.

What does P + R – Q mean ?

A Q is the father of P

B Q is the son of P

C Q is the uncle of P

D Q is the brother of P

Answer: Option A

Explanation:

Clearly , P + R – Q means P is the son of R who is the wife of Q i.e. Q is the father of P.

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1. What does P*R/Q mean ?

A P is the brother of R

B P is the father of Q

C P is the uncle of Q

D P is the nephew of Q

Answer: Option C

Explanation:

P*R/Q means P is the brother of R who is the mother of Q i.e. P is the uncle of Q.

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2. What does P = R+Q mean ?

A P is the aunt of Q

B P is the daughter of Q

C P is the niece of Q

D P is the sister of Q

Answer: Option B

Explanation:

P=R+Q means P is the sister of R who is the son of Q i.e. P is the daughter of Q.

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3. What does P = R/Q mean ?

A P is the aunt of Q

B P is the sister of Q

C Q is the niece of P

8+1

- ☐ Q is the niece of P
- ☐ Q is the daughter of P

Answer: Option A

Explanation:

P = R/Q means P is the sister of R Who is the mother of Q i.e. P is the aunt of Q

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4. A \$ B means A is the father of B; A # B means A is the sister of B; A * B means A is the daughter of B and A @ B means A is the brother of B. Which of the following indicates that M is the wife of Q?
- A Q \$ R # T @ M
- B Q \$ R @ T # M
- C Q \$ R * T # M
- D Q \$ R @ T * M

Answer: Option D

Explanation:

Q \$ R → Q is the father of R

R @ T → R is the brother of T Hence, → Q is the father of T T * M → T is the daughter of M Hence, → M is the mother of T Hence, M is the wife of Q.

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5. Choose the correct alternative from the given choices.
If 5@6= 131, 8@9= 299, then 20@21=?

- A 1825
- B 1691
- C 1386
- D 2025

Answer: Option B

Explanation:

The pattern is 5@6= 5+6=11, 11²+10=131, 20@21= 20+21=41, 41²+10=1691

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6. If 81 # 145 = 19 and 345 #18 = 21, then what is the value of 98 # 71?
- A 81
- B 123
- C 25
- D 36

Answer: Option C

Explanation:

81#145 = (8+1) + (1+4+5) = 9 + 10 = 19 Similarly 345 # 18 = (3 + 4 + 5) + (1+8) = 21 ∴ 98 # 71 = (9+8) + (7+1) = 25

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7. If P stands for 'addition' Q stands for 'subtraction' R stands for 'multiplication' and S stands for 'division, which of the following statements is correct?
- A 36 R 4 S 8 Q 7 P 4 = 10
- B 16 R 12 P 49 S 7Q 9 = 200
- C 32 S 8 R 9 = 160 Q 12 R 12
- D 8 R 8 P 8 S 8 Q 8 = 57

Answer: Option D

Explanation:

Using the proper notations in (d), we get the statement as 8*8+8/8-8 = 64+1-8 = 57

Using the proper notations in (v), we get the statement as $9 \times 9 + 18 \div 3 - 37 + 12 = 37$

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8. Which is the third number to the left of the number which is exactly in the middle of the following sequence of numbers ?

1 2 3 4 5 6 7 8 9 2 4 6 8 9 7 5 3 1 9 8 7 6 5 4 3 2 1

- A 3
B 4
C 5
D 6

Answer: Option B

Explanation:

Total 27 numbers. So middle number is 14th number = 9.

Third number to the left of this 9 is 4

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9. If 'a' means '+', 'b' means '×', 'c' means '+', 'd' means '-', then find the value of the expression $72a9b12a18c25d13b16c32$?

- A $-632/7$
B $-438/5$
C $-439/9$
D $-437/3$

Answer: Option D

Explanation:

We change the symbols in the expression as given in the question
 $72a9b12a18c25d13b16c32$ becomes $72 \div 9 \times 12 \div 18 + 25 - 13 \times 16 + 32$

By applying VBODMAS rule,

$$= \frac{72}{9} \times \frac{12}{18} + 25 - 13 \times 16 + 32$$

$$= \frac{16}{3} + 25 - 208 + 32$$

$$= \frac{16}{3} + 57 - 208$$

$$= \frac{16}{3} - 151$$

$$= \frac{16 - 453}{3}$$

$$= \frac{-437}{3}$$

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