Brain International School
Vikas Puri, New Delhi

SUBJECT: MATHEMATICS **CLASS:VII** **NOVEMBER 2026**

COMPUTATIONAL THINKING WORKSHEET

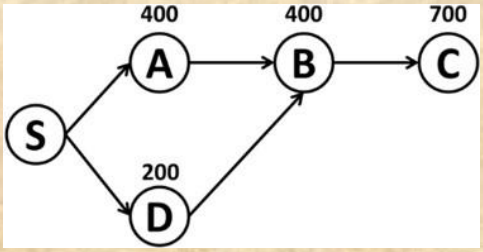
CH-4 Expressions using letters-numbers

1. **It is given that x means 'greater than', $ means 'equal to', < means 'not less than', A means 'less than' and + means 'not greater than'. Which of the following options has the same meaning as the given expression?**
a x b A c

a) a $ c A b b) b < a x c c) c x b A a d) c + b < a

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2. **A factory 'S' sends goods to four cities: A, B, C, and D through pipelines (represented by arrows), as shown below. The demand of each city is mentioned above that city** *(for example, the demand at City A is 400 units)*. **The demands are satisfied exactly, and no extra units are left in the pipelines. If 300 units are sent through the pipeline from A to B, how many units are sent from D to B?**



a) 200 b) 600 c) 800 d) 1000

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3. **Each letter in Set 1 corresponds to exactly one different number from Set 2 (in any order). Set 1: A, B, C, P, Q, R**
Set 2: 1, 2, 4, 5, 7, 9
The following conditions are given:
- **A and C are consecutive numbers, with A > C**
- **P + Q = R, with P > Q**
- **B is greater than both A and C**

Using this information, find the value of: (4P+3B) − (2P+3C) + (2A−3B)

a) 9 b) 13 c) 15 d) 11

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4. **The sum of the ages of four people A, B, C, and D is 35. Each one of them is at least 8 years old. What is the MAXIMUM possible age of the oldest person?**

a) 9 years b) 10 years c) 11 years d) 12 years

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5. **3 whole numbers A, B, and C, satisfy the given conditions. At maximum, how many different possible values can C have?**

$$A > B > C \text{ and } A + B = 10$$

a) 4 b) 5 c) 3 d) 2

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6. **If the sum of the ages of Shubham and Shivam is 36. What would be the sum of their ages after 36 years?**

a) 108 b) 136 c) 72 d) 96

7. **A, B, and Z are natural numbers such that A + B = Z and:**

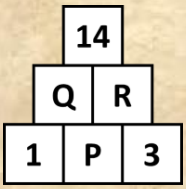
- **The value of B is twice the value of A**
- **The value of B is greater than 4**
- **The value of Z is less than 10**

What could be the value of A?

a) 1 b) 2 c) 3 d) 4

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8. **In the given image, each number equals the sum of the two numbers immediately below it. If P, Q, and R are unknown, what is the value of P × Q + R?**



a) 42 b) 48 c) 38 d) 36

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9. **5A, 5B, and C9 are 2-digit numbers, where A, B, and C represent one of the digits of the respective numbers, and A + B + C = 15. Find the MAXIMUM possible value of 3B + 4C + 8, if:**

$$5A > 5B > C9$$

a) 43 b) 39 c) 31 d) 36

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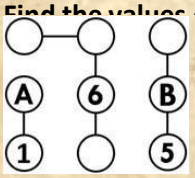
10. **All the cells having 'x' in the given calendar represent dates that are consecutive multiples of a particular number. The first 'x' represents the first Thursday of the month, as shown below. Which of the following is the last day of the month?**



a) Monday b) Sunday c) Saturday d) Friday

The Thinking Spot

Numbers from 1-9 are to be placed in the grid such that no two consecutive numbers are placed adjacent to each other.
For example, the bottom-left circle has 1, so the circle above it and the circle on the immediate right cannot have the number 2.
Each group of circles which are inter-connected by lines must contain either only odd or only even numbers.
Find the values of A and B



(a) A = 9 and B = 3 (b) A = 3 and B = 9 (c) A = 7 and B = 3 (d) A = 9 and B = 8

