THE HAMILTON ACADEMY

Class 6 Mathematics

Section- A

1. Which of the following is an algebraic equation?
   a. A+2>2
   b. B-3
   c. C+A=5
   d. D+1<K

2. Amit is x years old today. 10 years ago Amit's age was?
   a. (X-10)
   b. (X+10)
   c. (X/10)
   d. (X*10)

3. How many lines can pass through two given points?
   a. 1
   b. 25
   c. Infinite
   d. 3

4. If the diameter of the Circle is 20 cm, the length would be _____

5. There can be integers less than 0- True or False _____

6. The successor of integer -1 is _____

7. 2 Crore = _____ Lakhs

_____

8. _____ Million = 100 Thousand

9. Write the Factors of 24 _____

10. Write the factors of 120 _____

11. 5 is the _____ of 6 (Predecessor / Successor)

12. X exceeds Y by 10 units can be represented by _____

13. The number of hundreds in thousand is _____

14. 1 is the solution for equation X+1=1 (True or False) _____

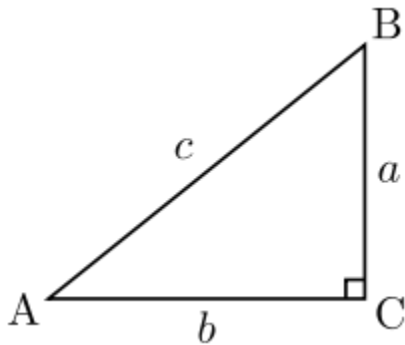15. When a negative integer is subtracted from another negative integer the result is _____

Section - B

16. What is the grates 4 digit number formed by using 5,8,9 such that one of the digit is repeated?

17. Write the Alphabetical for -12474850?

18. One the number line, out of two number, how would be determine which number is smaller?

19. What is commutative Property of whole number?

20. What is a composite Number?

21. Write 2 examples of an even 4 digit number?

22. Define Ray?

23. Define Line Segment?

24. The Sum of 2 integers is -12, if one of them is 6, what is the other number?

25. -7 + 8 -21+(87) = _____

26. The Number of matchsticks required to construct a chess board is?

_____

_____

Section - C

27. Provide solution for P/16=3 with proper steps of explanation?

28. Write 3 differences between a Square and Prism?

29. Show the difference between the sum of largest and smallest number formed by digits 4,5,8,3?

30. What is the shape of a basketball; support your answer with 3 arguments?

31. Define and draw Octagon?

32. Show the difference in the sum of largest and smallest number made out of 3 digits?

33. Find the value of X, if X*122=3 with proper steps of explanation?

34. Identify the type of triangle and what will be the 2/3 of the sum of all the angles?

35. The cobbler has 25 meters of leather sheet; He uses 3.1 Meters to make 1 shoe, what is the maximum number of shoes he can make out of the 25 meter leather sheet?

36. The factory produces 151 Chocolates per month in how many month will they be able to produce 1478 chocolates?

37. Explain Indian Value System?

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Section- D

38. Write down a brief description of Acute and obtuse angle and draw figure to explain the same?

39. Tell the angle between the hands of clock when it is-
    a) 3 O'clock
    b) 7 O'clock
    c) 9 O'clock
    d) 12 at the Midnight

40. While playing a game Arjun lost Rs. 50 in first round,Rs 15 in second round gained Rs.90 in the third game but again lost double what he lost in the third round finally winning the fourth round by Rs.100. What is the tote loss or gain of Arjun?

41. Explain what are Co-prime numbers with the help of 2 relevant examples?

42. Explain what is semi – Circle and an Arc with the help of a diagram?

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