Sample Questions for Level 3 (class 5)

1. Compute the missing entry in Box A

	A	
-56		-24
-7	8	-3

2. The diagonals of a rhombus are 6 cm and 10 cm. What is the value of the side in cm?

3. Find the unit digit of 2^999   [^ means exponent]

4. List all values of c that make the equation below true

|6c -30| = 12   [| x| means modules, like |-a| = a or |a | =a]

5. Jack skip-counts out loud. The first three numbers she says can be represented by the expressions n, n+7 and 2n, in that order, If Jack continues his pattern, what is the next number he will say?

6. If there a number N and we can break this N into prime numbers like N = a^p *b^q*c^r and the each prime no is called factor. The no of factors = (p+1)(q+1)(r+1)……..

Now find out the no. of factors of 72 using the above logic.

7. Match the 2D column with 3D column

	2D	3D
a)	Circle	Cone
b)	Semi-circle	Cube
c)	Triangle	Sphere
d)	Square	Regular Tetrahedron
e)	Equilateral Triangle	Hemi sphere

8. How many maximum no of rectangles we can get from this figure?

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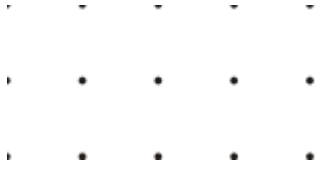
9. If in a new mathematical system 76 $ 34 produces 4852 and   3248! 16 produces 302, then what is the value of (78 *18) ! 2 in this new mathematical system. Bracketed portion should be calculated first.

10. If a point is moving by keeping an equal distance from a fixed point, then tell us - what is the shape of the trajectory of the moving point?