BCM SCHOOL,BASANT AVENUE,DUGRI, LUDHIANA

APRIL ASSIGNMENT

CLASS VIII (MATHEMATICS)

TOPIC - A Square and A Cube, Power Play

SECTION A (MULTIPLE CHOICE QUESTIONS)	
Q1	The square root of 1.96 is a) 1.4 b) 14 c) 0.14 d) 14.44
Q2	Which of the following is larger? a) 2.3×10^2 b) 23.2×10 c) 232×10^{-1} d) 232000×10^{-2}
Q3	Assertion (A): The value of $(-1)^{500}$ is 1. Reason (R): When a negative number is raised to an even power, the result is positive. (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true.
SECTION B (2 MARKS QUESTIONS)	
Q4	Given $97^2 = 9409$, what is the value of 98^2
Q5	If $3^x = 9^2 \times 27$, find the value of x.
SECTION C (3 MARKS QUESTIONS)	
Q6	Find the smallest number by which 1352 must be multiplied so that the product has a cube root. Also, find the cube root of the product.
Q7	Express the height of a bundle of 500 papers placed on each other if the thickness of one paper is 0.0016 cm in standard form.
SECTION D (5 MARKS QUESTIONS)	
Q8	Find the least number that must be added to 1750 so as to get a perfect square. Also find the square root of the perfect square so obtained.
Q9	a) Simplify using laws of exponents $\mathbf{(3/4)^8 \times (4/3)^5}$

	(b) Evaluate: $(1/2)^{-3} + (1/3)^{-2} + (1/4)^{-1}$
SECTION E (CASE STUDY)	
Q10	Priya wants to design a square box of area 2916 m^2. She went to the market and purchased a big cardboard box. She had to cut the cardboard for making the square box. Based on the above information, answer the following questions. i) What will be each side of a square box? ii) If Priya wants to apply coloured ribbon on all across the box then calculate the perimeter of the cardboard. iii) If the cost of applying ribbon all across the box is ₹ 5 then find the total amount spent.