	THE LAIDLAW M	EMORIAL SCHOOL AND	JUNIOR	
	(COLLEGE,KETTI		
ALL BURNES	ENTRANCE EXAM			
UED	SUBJECT : MATHEMATICS			
CLASS	: IX	DATE	:	
READING TIME	: 10 minutes	TOTAL MARKS	: 25	
WRITING TIME	: 1 Hour	NO. OF PAGES	: 03	

SECTION A (10 X 1 = 10)

Choose the correct answer in this Section:

- 1. Multiplicative inverse of $(-3) \times \left(-\frac{2}{3}\right)$ is
 - a. -2b. $-\frac{1}{2}$ c. $\frac{1}{2}$ d. $\frac{-9}{2}$

.

- 2. The cube of 0.2 is
 - a. 0.8
 - b. 4
 - c. 0.008
 - d. 0.0008
- 3. If $B = \{2, 3, 4\}$, $C = \{2, 4, 6\}$, then, AUB is equal to
 - a. {2, 3}
 - b. {2, 3, 4, 6}
 - c. {2, 3}
 - d. {6}
- 4. The simple interest on Rs. 4800 at 8% per annum for 2 years is
 - a. Rs.768
 - b. Rs.5568
 - c. Rs.960
 - d. Rs.1080
- 5. If 36 men can do a piece of work in 24 days, then 16 men will do the same work in
 - a. 54 days
 - b. 45 days
 - c. 56 days
 - d. 48 days
- 6. The greatest common factor of $9x^2y$, $27xy^2$ and $45x^2y^2$ is
- 7. If $\frac{3x+5}{2x+1} = \frac{1}{3}$, then the value of x is
- 8. If two adjacent angles of a parallelogram are $(3x+20)^{\circ}$ and $(2x + 10)^{\circ}$, then the value of x is -----

- 9. A cuboid has vertices, edges and Faces.
- 10. The gain per cent is%, if the cost price of 10 apples is equal to the selling price of 8 apples.

SECTION B (5 X 3 = 15) (Attempt any five Questions in this Section)

1.	Find the smallest six-digit number which is a perfect squa	re. [3]

2. From the following diagram,



Find

- a. $A \cap B$
- b. B A
- c. Complement of A

3.	Simple interest on a certain sum of money for 3 years at 8% per annum is Rs.10000.
	What will be the compound interest on that sum at the same rate for the same period?

[3]

[3]

4.	If 16 men can build a wall in 10 days, how long will it take 20 men to build the	same
	wall?	[3]

5. Evaluate each of the following using appropriate identities

a.	$(x+2y)^2$	[1]
b.	$(2a - 3y)^3$	[2]

6. Find the surface area of a cube whose edge is 7m [3]