Name: _____   Roll No. _____

SIDDEEQ PUBLIC SCHOOL

ENTRY TEST … **49**   **MATHEMATICS**   Max. Marks:**35**   ADMISSION to GRADE: **8**

Checked by	Srv #	Sign:	Rechecked by	Srv #	Sign:	Marks:

1. Complete the following mathematical statements. (1.0×4)

  (i) If A= {1,2}, B = {2} then A ∪ B = _____.

  (ii) Multiplicative inverse of zero is _____.

  (iii) (q + p) × _____ = $q^2 - p^2$

  (iv) If a car is travelling at the speed of 35 *m*/s then the speed in *km/h* is _____.

2. Name & verify the property. $\frac{-8}{12} \times (\frac{-1}{4} + \frac{1}{2}) = (\frac{-8}{12} \times \frac{-1}{4}) + (\frac{-8}{12} \times \frac{1}{2})$ (4.0)

   Name of property: _____

   Verification:_____

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3. If diameter of a circle is 112 *cm*, find its area. (Use $\pi \approx \frac{22}{7}$)   (4.0)

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4. If P:Q= 3: 4 , Q:R = $\frac{1}{4}$: $\frac{1}{8}$ (4.0)

   then find P:Q:R

5. Evaluate: $(3m - 4n)^2$ by using suitable identity .   (4.0)

6. When the numerator of a fraction is 4 less than its denominator, the fraction
    becomes $\dfrac{3}{7}$. Find the numerator and denominator.   (5.0)

    (Write an equation for the given situation & find the solution)

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7. The area of a square-shaped field is 11 025 m^2.
    (a) Find the length of each side.
    (b) Find the cost of fencing around the field at Rs 500 per meter.   (5.0)

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8. The radius of circular garden is 35m. How much distance will Ali cover, if he takes
    5 rounds around it.   ($\pi \approx \dfrac{22}{7}$ or 3.14)   (5.0)

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