

Name: _____

Roll No. _____

SIDDEEQ PUBLIC SCHOOL

ENTRY TEST ... 49

MATHEMATICS

Max. Marks: 20

ADMISSION to GRADE: 7

Checked by	Srv #	Sign:	Rechecked by	Srv #	Sign:	Marks:
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1. Complete the following mathematical statements. (1.0 × 4)

- (i) Integer between -1 and $+1$ _____ -1 (Insert: $<$ or $>$)
- (ii) The length of rectangle is two times of its width. If width is ' x ' then length is _____.
- (iii) If we solve $\frac{5}{4} \times \frac{4}{3} \times 3$, we get _____.
- (iv) If $t = 3$ then value of t^2 is _____.

2. Do as directed.

(i) Solve: $16x - 4 = 44$

(ii) Simplify : $[x^2 - \{3x^2 - (x^2 + x^2)\}]$ (2.0 × 2)

3. Find the Least common multiple of $5^2 \times 2$, 5×2^2 and $5 \times 2 \times 3$ (4.0)

4. Sara, Asma & Maha bought 2kg, 1200g and 800g mangoes respectively. Find the ratio between quantity of mangoes bought by Sara, Asma and Maha. (4.0)
(Give your answer in simplest form)

5. If the monthly fee of a school increased by 12% in 2026 compared to last year, and the fee was Rs 8000 last year, what is the monthly fee in 2026? (4.0)

(Use back of the sheet for Q#5)

SIDDEEQ PUBLIC SCHOOL

Answer Key

ADMISSION to GRADE: 7 (Group A)

MATHEMATICS

1. (i) $>$ (ii) $2x$ (iii) 5 (iv) 9

2. (i) $16x - 4 = 44$	•	(ii) $[x^2 - \{ 3x^2 - (x^2 + x^2) \}]$
$16x = 44 + 4$		$= [x^2 - \{ 3x^2 - 2x^2 \}]$
$16x = 48$		$= [x^2 - \{ x^2 \}]$
$x = \frac{48}{16}$		$= [x^2 - x^2]$
$x = 3$	•	$= 0$

3. Least common multiple = $5^2 \times 2^2 \times 3$

$$= 5 \times 5 \times 2 \times 2 \times 3$$
$$= 25 \times 4 \times 3$$
$$= 100 \times 3$$
$$= 300$$

4. As $1\text{kg} = 1000\text{g}$, $2\text{kg} = 2000\text{g}$

Ratio between quantity of mangoes bought by Sara, Asma and Maha is

$$= 2000 : 1200 : 800$$
$$= 20 : 12 : 8$$
$$= 10 : 6 : 4$$
$$= 5 : 3 : 2$$

5. Method #1:

Monthly Fee last year = Rs 8000

Increase % = 12 %

Increase in Fee = 12% of Rs 8000

$$= \frac{12}{100} \times \text{Rs } 8000$$

$$= 12 \times \text{Rs } 80$$

$$= \text{Rs } 960$$

Monthly fee in 2026 = Rs 8000+ Rs 960

$$= \text{Rs } 8960$$

Method # 2:

Monthly Fee in 2026 = (100+12)% of Fee last year

$$= 112\% \text{ of Rs } 8000$$

$$= \frac{112}{100} \times \text{Rs } 8000$$

$$= 112 \times \text{Rs } 80$$

$$= \text{Rs } 8960$$