SIDDEEQ PUBLIC SCHOOL

Answer Key

ADMISSION to GRADE: 7 (Group A)

MATHEMATICS

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

2. **(i)** $16x - 4 = 44$

$16x = 44 + 4$

$16x = 48$

$x = \frac{48}{16}$

$x = 3$

(ii) $[x^2 - \{ 3x^2 - (x^2 + x^2) \}]$

$= [x^2 - \{ 3x^2 - 2x^2 \}]$

$= [x^2 - \{ x^2 \}]$

$= [x^2 - x^2]$

$= 0$

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 1kg = 1000g , 2kg = 2000 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. <u>Method #1:</u>

Monthly Fee last year = Rs 8000

Increase % = 12 %

Increase in Fee = 12% of Rs 8000

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

$= 12 \times$ Rs 80

= Rs 960

Monthly fee in 2026 = Rs 8000+ Rs 960

= Rs 8960

<u>Method # 2:</u>

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

= 112% of Rs 8000

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

$= 112 \times$ Rs 80

= Rs 8960