SIDDEEQ PUBLIC SCHOOL

Answer Key

ADMISSION to GRADE: 7 (Group B)

MATHEMATICS

1. (i) 6 (ii) 25 (iii) > (iv) $\frac{x}{2}$

2. **(i) $16x + 4 = 52$**

$16x = 52 - 4$

$16x = 48$

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

$x = 3$

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

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

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

$=[2y^2 - 2y^2] = 0$

3. Highest common factor $= 5 \times 2^2$

$= 5 \times 4$

$= 20$

4. 1 km = 1000*m* **2 km = 2000*m***

Ratio of the distances covered by three cars

$=$ 1200: 2000: 800

$=$ 12 : 20 : 8

$=$ 6: 10 : 4

$=$ 3: 5: 2

5. Method #1:

Original price of book = Rs 6000

Reduction %= 12%

Amount of reduction = 12% of original price

$= \frac{12}{100} \times$ Rs 6000

$=$ 12 $\times$ Rs 60

$=$ Rs 720

New price of book = Rs 6000 − Rs 720

= Rs 5280

Method # 2:

New price of book = (100 −12)% of original price of book

= 88% of Rs 6000

$= \frac{88}{100} \times$ Rs 6000

= 88 $\times$ Rs 60

= Rs 5280